

## PTGER4 / EP4 Polyclonal Antibody | anti-PTGER4 antibody

Rabbit Polyclonal to Human PTGER4 / EP4

| CATALOG # | HOST                                       | REACTIVITY    | APPLICATIONS                              |
|-----------|--------------------------------------------|---------------|-------------------------------------------|
| AAA52128  | PTGER4/EP4 antibody was produced in Rabbit | Human, Monkey | Immunocytochemistry, Immunohistochemistry |

### PRODUCT SYNONYMS

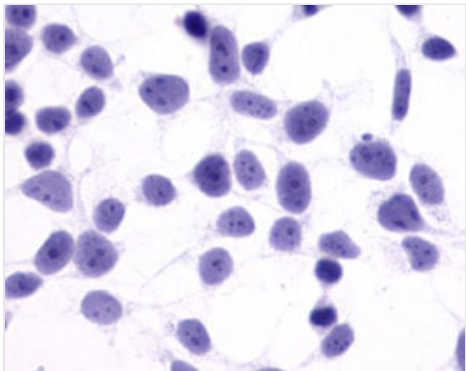
PTGER4 / EP4; Polyclonal Antibody; Rabbit Polyclonal to Human PTGER4 / EP4; Anti-PTGER4 / EP4 Antibody (C-Terminus) IHC-plus; PTGER4; EP4; EP4 prostaglandin receptor; EP4R; PGE receptor EP4 subtype; Prostanoid EP4 receptor; Prostaglandin E receptor 4; PGE receptor; EP4 subtype; PGE2 receptor EP4 subtype; Human PTGER4; anti-PTGER4 antibody

### PRODUCT SPECIFICATIONS

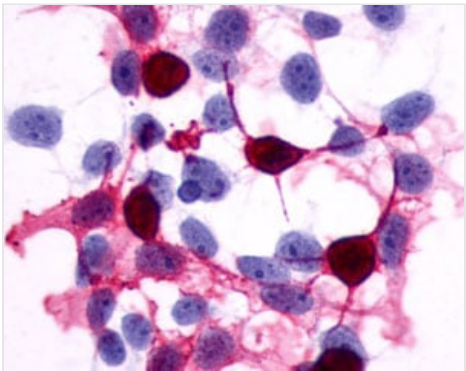
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|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | PTGER4/EP4 antibody was produced in Rabbit                                                                                                                                                                                                                                                                            |
| Reactivity                                       | Human, Monkey                                                                                                                                                                                                                                                                                                         |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                                                                                                            |
| Specificity                                      | Human PTGER4 / EP4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.                                                                                                                                                                                                             |
| Purity/Purification                              | Immunoaffinity Purified                                                                                                                                                                                                                                                                                               |
| Form/Format                                      | PBS, 0.1% sodium azide.                                                                                                                                                                                                                                                                                               |
| Concentration                                    | 1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                               |
| Sequence Length                                  | 488                                                                                                                                                                                                                                                                                                                   |
| Applicable Applications for anti-PTGER4 antibody | ICC (Immunocytochemistry), IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                 |
| Antigen Type                                     | Synthetic peptide                                                                                                                                                                                                                                                                                                     |
| Immunogen                                        | PTGER4 / EP4 antibody was raised against synthetic 18 amino acid peptide from C-terminus of human PTGER4 / EP4. Percent identity with other species by BLAST analysis: Human, Chimpanzee, Gorilla, Gibbon, Monkey, Marmoset (100%); Panda, Dog, Horse (83%).                                                          |
| Immunogen Species                                | PTGER4/EP4 antibody was raised against Human                                                                                                                                                                                                                                                                          |
| Disclaimer                                       | Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application. |

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|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommended Immunohistochemistry Protocol</b> | <p>The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results:</p> <p><b>Tissue Preparation:</b><br/>Formalin fixation and embedding in paraffin wax.</p> <p><b>Tissue Sectioning:</b><br/>Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C.</p> <p><b>Deparaffinization:</b><br/>Wash dry slides in 3 changes of xylene - 5 minutes each @ RT</p> <p><b>Rehydration:</b><br/>Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT<br/>Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT<br/>Wash slides in 1 change of 80% alcohol - 3 minutes @ RT<br/>Rinse slides in gentle running distilled water - 5 minutes @ RT</p> <p><b>Antigen retrieval:</b><br/>Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes<br/>Remove from heat and let stand at room temperature in buffer - 20 minutes<br/>Rinse in 1X TBS with Tween (TBST) -1 minute @ RT</p> <p><b>Immunostaining:</b><br/>(Do not allow tissues to dry at any time during the staining procedure)<br/>Apply a universal protein block - 20 minutes @ RT<br/>Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT<br/>Rinse slides in 1 X TBST - 1 minute @ RT<br/>Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT<br/>Rinse slides in 1X TBST -1 minute @ RT<br/>Apply alkaline phosphatase streptavidin - 30 minutes @ RT<br/>Rinse slides in 1X TBST -1 minute @ RT<br/>Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT<br/>Wash slides in distilled water - 1 minute @ RT</p> <p><b>Dehydrate:</b><br/>(This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB)<br/>Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT<br/>Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT<br/>Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT<br/>Wash slides in 3 changes of xylene - 1 minute each @ RT<br/>Apply coverslip</p> |
| <b>Note</b>                                      | <p>During shipment,small volumes of product will ocassionally become entrapped in the seal of the product vial. We recommend briefly centrifuging the vial to dislodge any liquid in the container's cap prior to opening.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Warning</b>                                   | <p>This reagent may contain sodium azide. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated.Standard Laboratory Practices should be followed. Avoid skin and eye contact,inhalation, and ingestion. Sodium azide forms hydrazoic acid under acidic conditions and may react with lead or copper plubing to form highly explosive metal azides. On disposal, flush with large volumes of water to prevent accumulation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Preparation and Storage</b>                   | <p>Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze/thaw cycles.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

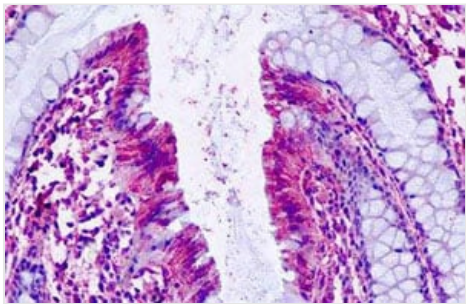
IMAGES



Transfection Control



Transfection



IHC (Immunohistochemistry)  
Human, Colon: Formalin-Fixed Paraffin-Embedded (FFPE)

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                      |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PTGER4 antibody | Prostaglandin E receptor EP4 is a Prostanoid Receptor with a relaxing effect on smooth muscle. It may play an important role in regulating renal hemodynamics, intestinal epithelial transport, adrenal aldosterone secretion, and uterine function. |
| Product Categories/Family for anti-PTGER4 antibody   | Family: GPCR; Subfamily: Prostanoid                                                                                                                                                                                                                  |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4506259                                                                                                                                        |
| NCBI GeneID                      | 5734                                                                                                                                           |
| NCBI Accession #                 | NP_000949.1                                                                                                                                    |
| NCBI GenBank Nucleotide #        | NM_000958.2                                                                                                                                    |
| UniProt Accession #              | P35408; Q3MJ87                                                                                                                                 |
| NCBI Official Full Name          | prostaglandin E2 receptor EP4 subtype                                                                                                          |
| NCBI Official Synonym Full Names | prostaglandin E receptor 4 (subtype EP4)                                                                                                       |
| NCBI Official Symbol             | PTGER4                                                                                                                                         |
| NCBI Official Synonym Symbols    | EP4; EP4R                                                                                                                                      |
| NCBI Protein Information         | prostaglandin E2 receptor EP4 subtype; prostanoid EP4 receptor; PGE receptor EP4 subtype; PGE receptor, EP4 subtype; PGE2 receptor EP4 subtype |
| UniProt Protein Name             | Prostaglandin E2 receptor EP4 subtype                                                                                                          |

|                            |                                                             |
|----------------------------|-------------------------------------------------------------|
| UniProt Gene Name          | PTGER4                                                      |
| UniProt Synonym Gene Names | PTGER2; PGE receptor EP4 subtype; PGE2 receptor EP4 subtype |
| UniProt Entry Name         | PE2R4_HUMAN                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ptger4-ep4-antibody-immunocytochemistry-immunohistochemistry-elisa/52128>