

## Rabbit IL1R Polyclonal Antibody | anti-IL1R1 antibody

IL1R Antibody (C-term E487)

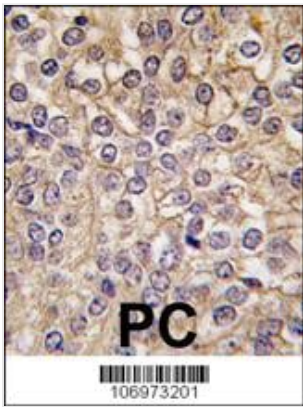
|                               |                       |                                                        |                                            |
|-------------------------------|-----------------------|--------------------------------------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA284290</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human (Predicted Reactivity: Rat)</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|--------------------------------------------------------|--------------------------------------------|

### PRODUCT SYNONYMS

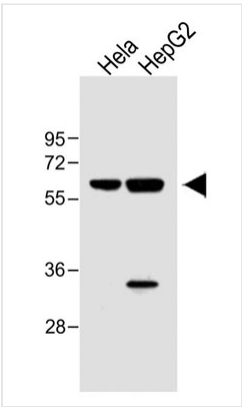
IL1R; Polyclonal Antibody; IL1R Antibody (C-term E487); Interleukin-1 receptor type 1; IL-1R-1; IL-1RT-1; IL-1RT1; CD121 antigen-like family member A; Interleukin-1 receptor alpha; IL-1R-alpha; Interleukin-1 receptor type I; p80; CD121a; membrane form; mIL-1R1; mL-1RI; soluble form; sIL-1R1; sIL-1RI; IL1R1; IL1RA; IL1RT1; anti-IL1R1 antibody

### PRODUCT SPECIFICATIONS

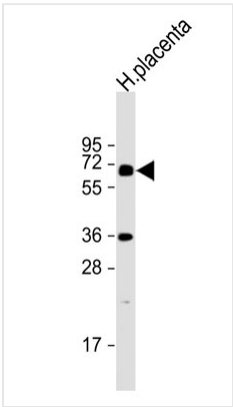
|                                                 |                                                                                                                                                                      |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                               |
| Reactivity                                      | Human (Predicted Reactivity: Rat)                                                                                                                                    |
| Clonality                                       | Polyclonal                                                                                                                                                           |
| Isotype                                         | IgG                                                                                                                                                                  |
| Specificity                                     | This IL1R antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 474-503 amino acids from the C-terminal region of human IL1R. |
| Purity/Purification                             | This antibody is purified through a protein A column, followed by peptide affinity purification.                                                                     |
| Form/Format                                     | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.                                                                                          |
| Sequence Positions                              | 474-503                                                                                                                                                              |
| Sequence Length                                 | 569                                                                                                                                                                  |
| Applicable Applications for anti-IL1R1 antibody | ELISA, WB (Western Blot)                                                                                                                                             |
| Cellular Location                               | Membrane; Single-pass type 1 membrane protein. Cell membrane. Secreted                                                                                               |
| Tissue Location                                 | Expressed in T-helper cell subsets. Preferentially expressed in T-helper 1 (Th1) cells                                                                               |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                |



**IHC (Immunohistochemistry)**  
Formalin-fixed and paraffin-embedded human prostata carcinoma tissue reacted with IL1R antibody (C-term E487), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



**WB (Western Blot)**  
All lanes: Anti-hIL1R-pY496 at 1:1000 dilution Lane 1: HeLa whole cell lysate Lane 2: HepG2 whole cell lysate Lysates/proteins at 40 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 65 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



**WB (Western Blot)**  
Anti-IL1R Antibody (C-term E487) at 1:2000 dilution + human placenta lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 65 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-IL1R1 antibody</b> | <p>Background: IL1R is a member of the interleukin 1 receptor family. An experiment with transient gene expression demonstrated that this receptor was incapable of binding to interleukin 1 alpha and interleukin 1 beta with high affinity. IL1R is a receptor for interleukin 1 family member 9 (IL1F9). Binding to the agonist leads to the activation of NF-kappa-B. The gene for this protein and four other interleukin 1 receptor family genes, including interleukin 1 receptor, type I (IL1R1), interleukin 1 receptor, type II (IL1R2), interleukin 1 receptor-like 1 (IL1RL1), and interleukin 18 receptor 1 (IL18R1), form a cytokine receptor gene cluster in a region mapped to chromosome 2q12.</p> <p>Function: Receptor for IL1A, IL1B and IL1RN (PubMed:2950091). After binding to interleukin-1 associates with the coreceptor IL1RAP to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B, MAPK and other pathways. Signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or IRAK2 via the respective TIR domains of the receptor/coreceptor subunits. Binds ligands with comparable affinity and binding of antagonist IL1RN prevents association with IL1RAP to form a signaling complex. Involved in IL1B-mediated costimulation of IFNG production from T-helper 1 (Th1) cells (PubMed:10653850).</p> |
| <b>Product Categories/Family for anti-IL1R1 antibody</b>   | Crown Antibodies; Cardiovascular; Immunology; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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| References | <p>Debets, R., et al., J. Immunol. 167(3):1440-1446 (2001).</p> <p>Dale, M., et al., Genomics 57(1):177-179 (1999).</p> <p>Torigoe, K., et al., J. Biol. Chem. 272(41):25737-25742 (1997).</p> <p>Lovenberg, T.W., et al., J. Neuroimmunol. 70(2):113-122 (1996).</p> |
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### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4504659                                                                                          |
| NCBI GeneID                      | 3554                                                                                             |
| NCBI Accession #                 | NP_000868.1                                                                                      |
| NCBI GenBank Nucleotide #        | NM_000877.3                                                                                      |
| UniProt Accession #              | P14778; Q58717                                                                                   |
| NCBI Official Full Name          | interleukin-1 receptor type 1 isoform 1                                                          |
| NCBI Official Synonym Full Names | interleukin 1 receptor, type I                                                                   |
| NCBI Official Symbol             | IL1R1                                                                                            |
| NCBI Official Synonym Symbols    | P80; IL1R; IL1RA; CD121A; D2S1473; IL-1R-alpha                                                   |
| NCBI Protein Information         | interleukin-1 receptor type 1                                                                    |
| UniProt Protein Name             | Interleukin-1 receptor type 1                                                                    |
| UniProt Gene Name                | <b>IL1R1</b>                                                                                     |
| UniProt Synonym Gene Names       | IL1R; IL1RA; IL1RT1; IL-1R-1; IL-1RT-1; IL-1RT1; IL-1R-alpha; mIL-1R1; mIL-1RI; sIL-1R1; sIL-1RI |
| UniProt Entry Name               | IL1R1_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.