

## Rabbit Estrogen Receptor-alpha Polyclonal Antibody | anti-ESR1 antibody

Estrogen Receptor-alpha (Phospho-Ser102) Antibody

|                               |                       |                                        |                                                           |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA307958</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|-----------------------------------------------------------|

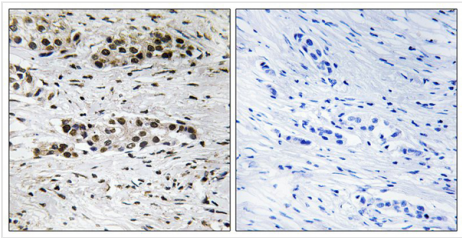
### PRODUCT SYNONYMS

Estrogen Receptor-alpha; Polyclonal Antibody; Estrogen Receptor-alpha (Phospho-Ser102) Antibody; Estrogen Receptor-a (Phospho-Ser102) Antibody; ER; ESR; ESR1; ESTR; NR3A1; anti-ESR1 antibody

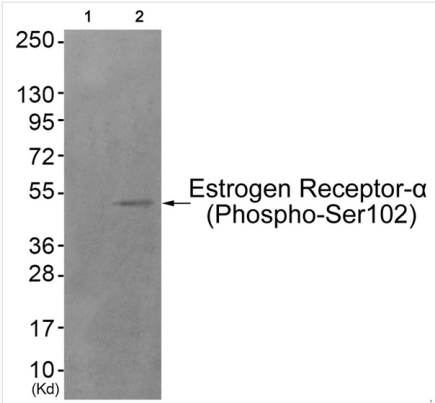
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                  |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                           |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                                                                                                |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                       |
| Specificity                                    | The antibody detects endogenous levels of Estrogen Receptor-a only when phosphorylated at serine 102.                                                                                                                                                            |
| Purity/Purification                            | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using |
| Form/Format                                    | Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                               |
| Concentration                                  | 1.0 mg/ml (varies by lot)                                                                                                                                                                                                                                        |
| Sequence Length                                | 595                                                                                                                                                                                                                                                              |
| Applicable Applications for anti-ESR1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                    |
| Immunogen Type                                 | Peptide-KLH                                                                                                                                                                                                                                                      |
| Immunogen Description                          | Peptide sequence around phosphorylation site of Serine102(L-N-S(p)-V-S) derived from Human Estrogen Receptor-a.                                                                                                                                                  |
| Modification                                   | Phospho-Ser102                                                                                                                                                                                                                                                   |
| Target Name                                    | Estrogen Receptor-a                                                                                                                                                                                                                                              |
| Preparation and Storage                        | Store at -20 degree C/1 year                                                                                                                                                                                                                                     |

IMAGES



**IHC (Immunohistochemistry)**  
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Estrogen Receptor- $\alpha$  (Phospho-Ser102) antibody (left) or the same antibody preincubated with blocking peptide (right).



**WB (Western Blot)**  
Western blot analysis of extracts from HuvEc cells (Lane 2), using Estrogen Receptor- $\alpha$  (Phospho-Ser102) Antibody. The lane on the left is treated with antigen-specific peptide.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                          |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ESR1 antibody | Nuclear hormone receptor. The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. |
| Product Categories/Family for anti-ESR1 antibody   | Phospho-specific Ab                                                                                                                                                                                      |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| NCBI GI #                        | 62821794                                                       |
| NCBI GeneID                      | 2099                                                           |
| NCBI Accession #                 | NP_000116.2                                                    |
| NCBI GenBank Nucleotide #        | NM_000125.3                                                    |
| UniProt Accession #              | P03372; Q13511; Q14276; Q5T5H7; Q6MZQ9; Q9NU51; Q9UDZ7; Q9UIS7 |
| Molecular Weight                 | 35,547 Da                                                      |
| NCBI Official Full Name          | estrogen receptor isoform 1                                    |
| NCBI Official Synonym Full Names | estrogen receptor 1                                            |
| NCBI Official Symbol             | ESR1                                                           |
| NCBI Official Synonym Symbols    | ER; ESR; Era; ESRA; ESTRR; NR3A1                               |
| NCBI Protein Information         | estrogen receptor                                              |
| UniProt Protein Name             | Estrogen receptor                                              |
| UniProt Gene Name                | ESR1                                                           |
| UniProt Synonym Gene Names       | ESR; NR3A1; ER                                                 |
| UniProt Entry Name               | ESR1_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.