

## Rabbit anti-Human, Mouse ESR1-S118 Antibody | anti-ESR1 antibody

Phospho-ESR1-S118 Polyclonal Antibody

|                              |                       |                                   |                                                                               |
|------------------------------|-----------------------|-----------------------------------|-------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA37388</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse</b> | APPLICATIONS<br><b>Immunofluorescence, Immunohistochemistry, Western Blot</b> |
|------------------------------|-----------------------|-----------------------------------|-------------------------------------------------------------------------------|

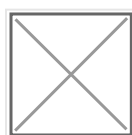
### PRODUCT SYNONYMS

ESR1-S118; Phospho-ESR1-S118 Polyclonal Antibody; Phospho-ESR1-S118: ER; ESR; Era; ESRA; ESTRR; NR3A1; anti-ESR1 antibody

### PRODUCT SPECIFICATIONS

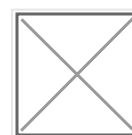
|                                                |                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                |
| Reactivity                                     | Human, Mouse                                                                                                                                          |
| Isotype                                        | IgG                                                                                                                                                   |
| Purity/Purification                            | Affinity Purification                                                                                                                                 |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                                |
| Sequence Length                                | 595                                                                                                                                                   |
| Applicable Applications for anti-ESR1 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                                                |
| Species                                        | Human                                                                                                                                                 |
| Route                                          | Synthetic Peptide                                                                                                                                     |
| Immunogen                                      | A phospho specific peptide corresponding to residues surrounding S118 of human ESR1                                                                   |
| Calculated Molecular Weight                    | 66kDa                                                                                                                                                 |
| Preparation and Storage                        | Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles.<br>Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |

### IMAGES



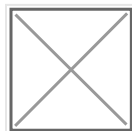
#### IF (Immunofluorescence)

Immunofluorescence staining of methanol-fixed MCF-7 cells using Phospho-ESR1-S118 antibody.



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human breast carcinoma using Phospho-ESR1-S118 antibody.



#### WB (Western Blot)

Western blot analysis of extracts from MDA cells using Phospho-ESR1-S118 antibody. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% BSA.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ESR1 antibody | This gene encodes an estrogen receptor, a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative splicing results in several transcript variants, which differ in their 5' UTRs and use different promoters. |
| Product Categories/Family for anti-ESR1 antibody   | Phosphorylation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                          |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 544257                                                                                                                                                                                                   |
| NCBI GeneID                      | 2099                                                                                                                                                                                                     |
| UniProt Accession #              | P03372; Q13511; Q14276; Q5T5H7; Q6MZQ9; Q9NU51; Q9UDZ7; Q9UIS7                                                                                                                                           |
| Molecular Weight                 | 595                                                                                                                                                                                                      |
| NCBI Official Full Name          | Estrogen receptor                                                                                                                                                                                        |
| 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; ER-alpha; estradiol receptor; estrogen nuclear receptor alpha; estrogen receptor alpha E1-E2-1-2; estrogen receptor alpha E1-N2-E2-1-2; nuclear receptor subfamily 3 group A member 1 |
| 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.

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Online datasheet: <https://stage.aaabiotech.com/rabbit-human-mouse-antibody/esr1-s118/37388>