

## Rabbit ESR1 Polyclonal Antibody | anti-ESR1 antibody

ESR1 Antibody

|                              |                       |                                        |                                                                                      |
|------------------------------|-----------------------|----------------------------------------|--------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA40763</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunofluorescence, Immunohistochemistry, Western Blot, ELISA</b> |
|------------------------------|-----------------------|----------------------------------------|--------------------------------------------------------------------------------------|

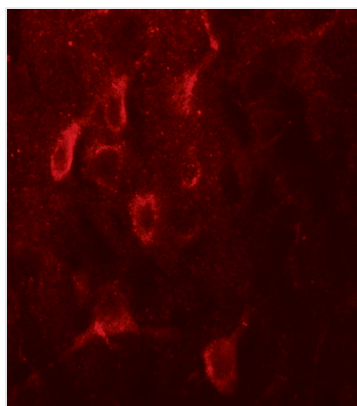
### PRODUCT SYNONYMS

ESR1; Polyclonal Antibody; ESR1 Antibody; ER; ESR; Era; ESRA; ESTRR; NR3A1; Estrogen receptor; ER-alpha; estrogen receptor 1; anti-ESR1 antibody

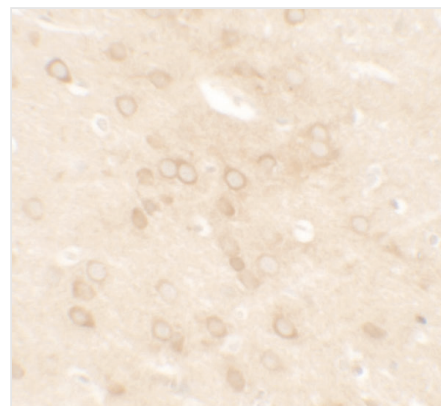
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                         |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                  |
| Reactivity                                     | Human, Mouse, Rat                                                                                       |
| Clonality                                      | Polyclonal                                                                                              |
| Isotype                                        | IgG                                                                                                     |
| Specificity                                    | ESR1 antibody is human, mouse and rat reactive.                                                         |
| Purity/Purification                            | ESR1 Antibody is affinity chromatography purified via peptide column.                                   |
| Form/Format                                    | Liquid                                                                                                  |
| Concentration                                  | 1 mg/mL (varies by lot)                                                                                 |
| Sequence Length                                | 595                                                                                                     |
| Applicable Applications for anti-ESR1 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA                           |
| Conjugate                                      | Unconjugated                                                                                            |
| Immunogen                                      | ESR1 antibody was raised against an 18 amino acid peptide near the center of human ESR1.                |
| Buffer                                         | ESR1 Antibody is supplied in PBS containing 0.02% sodium azide.                                         |
| Preparation and Storage                        | ESR1 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. |

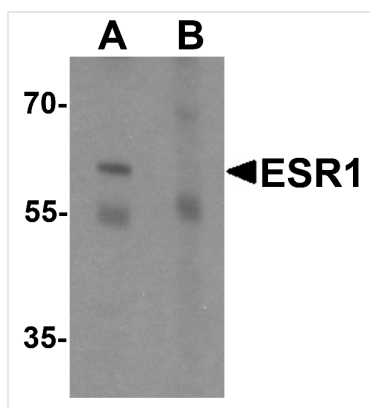
### IMAGES


**IF (Immunofluorescence)**

Immunofluorescence of ESR1 in rat brain tissue with ESR1 antibody at 20 &amp;#956;g/mL.


**IHC (Immunohistochemistry)**

Immunohistochemistry of ESR1 in rat brain tissue with ESR1 antibody at 5 &amp;#956;g/mL.



#### WB (Western Blot)

Western blot analysis of ESR1 in rat brain tissue lysate with ESR1 antibody at 1 &#956;g/mL in (A) the absence and (B) the presence of blocking peptide.

## ADDITIONAL INFORMATION

### Related Product Information for anti-ESR1 antibody

ESR1 Antibody: Estrogen receptors (ER) are members of the steroid/thyroid hormone receptor superfamily of ligand-activated transcription factors (1). Estrogen receptors, including ESR1, also known as ER-alpha and ESR2 (ER-beta), contain DNA binding and ligand binding domains and are critically involved in regulating the normal function of reproductive tissues. ESR1 is a widely expressed nuclear protein and serves as a strong activator of estrogen responsive genes (1,2). Phosphorylation of serines 104 and 106, located in the N-terminal transcription activation function-1 domain (AF-1), plays a large role in regulating ER alpha activity (3).

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                          |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 170295804                                                                                                                                                                                                |
| NCBI GeneID                      | 2099                                                                                                                                                                                                     |
| NCBI Accession #                 | NP_001116214                                                                                                                                                                                             |
| NCBI GenBank Nucleotide #        | NM_001122742.1                                                                                                                                                                                           |
| UniProt Accession #              | P03372; Q13511; Q14276; Q5T5H7; Q6MZQ9; Q9NU51; Q9UDZ7; Q9UIS7                                                                                                                                           |
| Molecular Weight                 | Predicted: 65 kDa<br>Observed: 62 kDa                                                                                                                                                                    |
| 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; 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                | <b>ESR1</b>                                                                                                                                                                                              |
| 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.

