

Estrogen Receptor- α (Phospho Thr311) Rabbit pAb

CatalogNo: YP1811 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IHC, WB

MW

- 66kD (Observed)

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human Estrogen Receptor- α (Phospho Thr311)

Specificity This antibody detects endogenous levels of Estrogen Receptor- α (Phospho Thr311) Rabbit pAb at Human, Mouse, Rat

Target Information

Gene name ESR1 ESR NR3A1

Protein Name Estrogen receptor (ER) (ER-alpha) (Estradiol receptor) (Nuclear receptor subfamily 3 group A member 1)

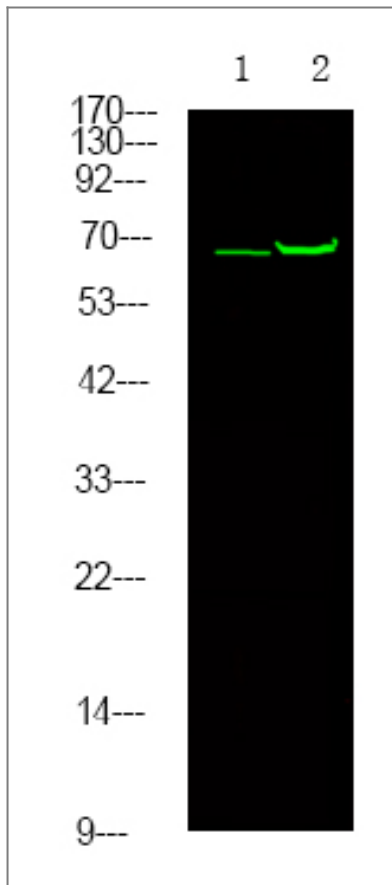
Organism	Gene ID	UniProt ID
Human	2099 ;	P03372 ;
Mouse	13982 ;	P19785 ;
Rat	24890 ;	P06211 ;

Cellular Localization [Isoform 1]: Nucleus . Cytoplasm . Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . A minor fraction is associated with the inner membrane.; [Isoform 3]: Nucleus. Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell membrane; Single-pass type I membrane protein. Associated with the inner membrane via palmitoylation (Probable) . At least a subset exists as a transmembrane protein with a N-terminal extracellular domain. .; Nucleus. Golgi apparatus. Cell membrane. Colocalizes with ZDHHC7 and ZDHHC21 in the Golgi apparatus where most probably palmitoylation occurs. Associated with the plasma membrane when palmitoylated.

Tissue specificity Widely expressed (PubMed:10970861) . Not expressed in the pituitary gland (PubMed:10970861) . ; [Isoform 3]: Widely expressed , however not expressed in the pituitary gland.

Function Domain:Composed of three domains: a modulating N-terminal domain , a DNA-binding domain and a C-terminal steroid-binding domain. ,Function: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. ,online information:Estrogen receptor entry ,polymorphism:Genetic variations in ESR1 are correlated with bone mineral density (BMD) . Low BMD is a risk factor for osteoporotic fracture. Osteoporosis is characterized by reduced bone mineral density , disruption of bone microarchitecture , and the alteration of the amount and variety of non-collagenous proteins in bone. Osteoporotic bones are more at risk of fracture. ,PTM:Glycosylated; contains N-acetylglucosamine , probably O-linked. ,PTM:Phosphorylated by cyclin A/CDK2. Phosphorylation probably enhances transcriptional activity. ,similarity:Belongs to the nuclear hormone receptor family. ,similarity:Belongs to the nuclear hormone receptor family. NR3 subfamily. ,similarity:Contains 1 nuclear receptor DNA-binding domain. ,subunit:Interacts with SLC30A9 (By similarity) . Binds DNA as a homodimer. Can form a heterodimer with ESR2. Interacts with NCOA3 , NCOA5 and NCOA6 coactivators , leading to a strong increase of transcription of target genes. Interacts with NCOA7 in a ligand-inducible manner. Interacts with PHB2 , PELP1 and UBE1C. Interacts with AKAP13. Interacts with CUEDC2. Interacts with KDM5A. Interacts with SMARD1. Interacts with HEXIM1 and MAP1S. Interacts with PBXIP1. Interaction with MUC1 is stimulated by 7 beta-estradiol (E2) and enhances ESR1-mediated transcription. Interacts with DNTTIP2 , FAM120B and UIMC1. Interacts with isoform 4 of TXNRD1. Interacts with MLL2. Interacts with ATAD2 and this interaction is enhanced by estradiol. ,

Validation Data



Western Blot analysis of 1 HeLa cell, 2 Serum-free treated ,using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

Contact information

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Estrogen Receptor- α
(Phospho Thr311)
Rabbit pAb

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