

Anti-Estrogen Receptor α Antibody

Mouse Anti Human Monoclonal Antibody

Catalog # AP53403

Product Information

Application	WB
Primary Accession	P03372
Other Accession	NM_000125
Reactivity	Transfected
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Immunogen	Purified recombinant human Estrogen Receptor α MMP-2 protein expressed in E.coli.
Purification	Affinity purified
Calculated MW	66216

Additional Information

Gene ID	2099
Other Names	Atherosclerosis, susceptibility to, included;DKFZp686N23123;ER Alpha;ER;ER Beta;ER-alpha;ER[a];ER[b];Era;ERalpha;Erb;Erb2;ERbeta;ESR;ESR BETA;ESR1;ESR1_HUMAN;ESR2;ESRA;ESRB;Estr;Estra;Estradiol Receptor alpha;Estradiol receptor;Estradiol Receptor beta;ESTRB;Estrogen nuclear receptor alpha;Estrogen receptor 1 (alpha);Estrogen Receptor 1;Estrogen receptor 2 (ER beta);Estrogen Receptor 2;Estrogen receptor 2 ER beta;Estrogen receptor alpha;Estrogen receptor alpha 3*, 4, 5, 6, 7*/822 isoform;Estrogen receptor alpha delta 3*, 4, 5, 6, 7*, 8*/941 isoform;Estrogen receptor alpha delta 3*, 4, 5, 6, 7*/819 2 isoform;Estrogen receptor alpha delta 4 +49 isoform;Estrogen receptor alpha delta 4*, 5, 6, 7*/654 isoform;Estrogen receptor alpha delta 4*, 5, 6, 7, 8*/901 isoform;Estrogen receptor alpha E1 E2 1 2;Estrogen receptor alpha E1 N2 E2 1 2;Estrogen receptor;Estrogen receptor beta 4;Estrogen resistance, included;ESTRR;HDL cholesterol, augmented response of, to hormone replacement, included;Myocardial infarction, susceptibility to, included;NR3A1;NR3A2;Nuclear receptor subfamily 3 group A member 1;Nuclear receptor subfamily 3 group A member 2;OTTHUMP00000017718;OTTHUMP00000017719;RNESTROR.
Dilution	WB~~1:1000
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

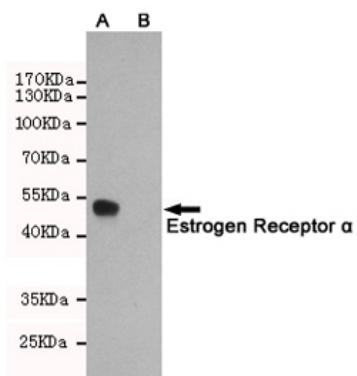
Name	ESR1
Synonyms	ESR, NR3A1
Function	<p>Nuclear hormone receptor. The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Ligand-dependent nuclear transactivation involves either direct homodimer binding to a palindromic estrogen response element (ERE) sequence or association with other DNA-binding transcription factors, such as AP-1/c-Jun, c-Fos, ATF-2, Sp1 and Sp3, to mediate ERE- independent signaling. Ligand binding induces a conformational change allowing subsequent or combinatorial association with multiprotein coactivator complexes through LXXLL motifs of their respective components. Mutual transrepression occurs between the estrogen receptor (ER) and NF-kappa-B in a cell-type specific manner. Decreases NF-kappa- B DNA-binding activity and inhibits NF-kappa-B-mediated transcription from the IL6 promoter and displace RELA/p65 and associated coregulators from the promoter. Recruited to the NF-kappa-B response element of the CCL2 and IL8 promoters and can displace CREBBP. Present with NF-kappa-B components RELA/p65 and NFKB1/p50 on ERE sequences. Can also act synergistically with NF-kappa-B to activate transcription involving respective recruitment adjacent response elements; the function involves CREBBP. Can activate the transcriptional activity of TFF1. Also mediates membrane-initiated estrogen signaling involving various kinase cascades. Essential for MTA1-mediated transcriptional regulation of BRCA1 and BCAS3 (PubMed:17922032). Maintains neuronal survival in response to ischemic reperfusion injury when in the presence of circulating estradiol (17-beta-estradiol/E2) (By similarity).</p>
Cellular Location	<p>[Isoform 1]: Nucleus {ECO:0000255 PROSITE- ProRule:PRU00407, ECO:0000269 PubMed:12682286, ECO:0000269 PubMed:20074560}. Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Note=A minor fraction is associated with the inner membrane Nucleus. Golgi apparatus. Cell membrane. Note=Colocalizes with ZDHHC7 and ZDHHC21 in the Golgi apparatus where most probably palmitoylation occurs. Associated with the plasma membrane when palmitoylated</p>
Tissue Location	Widely expressed (PubMed:10970861). Not expressed in the pituitary gland (PubMed:10970861)

Background

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. Ligand-dependent nuclear transactivation involves eith

Images

Western blot analysis of extracts from CHO-K1 (B) and CHO-K1 transfected by Estrogen Receptor α fragment(A) cell lysates using Estrogen Receptor α mouse mAb (1:2000 diluted). Predicted band size:50KDa. Observed band size:50KDa.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.