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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 αMMP-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

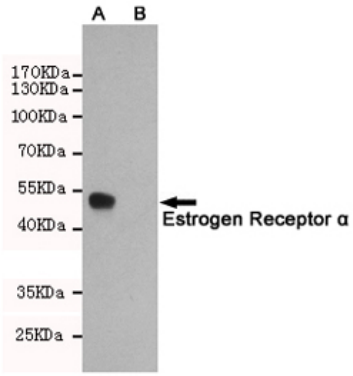
Name	ESR1
Synonyms	ESR, NR3A1
Function	Nuclear hormone receptor. The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Ligand-dependent nuclear transactivation involves either direct 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).
Cellular Location	[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
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'.