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Mouse Monoclonal Antibody to ESRRA

Purified Mouse Monoclonal Antibody
Catalog # AO2421a

Product Information

Application	WB, FC, E
Primary Accession	P11474
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Clone Names	6F1E6
Isotype	Mouse IgG1
Calculated MW	45510
Description	The protein encoded by this gene is a nuclear receptor that is closely related to the estrogen receptor. This protein acts as a site-specific transcription regulator and has been also shown to interact with estrogen and the transcripton factor TFIIB by direct protein-protein contact. The binding and regulatory activities of this protein have been demonstrated in the regulation of a variety of genes including lactoferrin, osteopontin, medium-chain acyl coenzyme A dehydrogenase (MCAD) and thyroid hormone receptor genes. A processed pseudogene of ESRRA is located on chromosome 13q12.1. Alternatively spliced transcript variants have been found for this gene.;
Immunogen	Purified recombinant fragment of human ESRRA (AA: 198-376) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide
Application Note	ELISA: 1/10000; WB: 1/500 - 1/2000; FCM: 1/200 - 1/400

Additional Information

Gene ID	2101
Other Names	ERR1; ERRa; ESRL1; NR3B1; ERRalpha
Dilution	WB~~1:1000 FC~~1:10~50 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse Monoclonal Antibody to ESRRA is for research use only and not for use in diagnostic or therapeutic procedures.

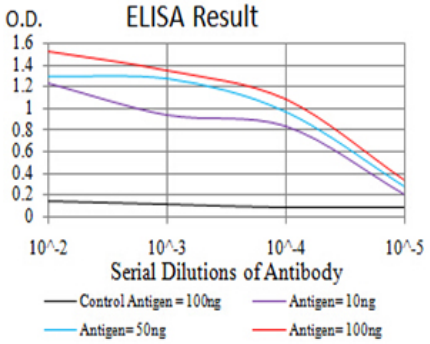
Protein Information

Name	ESRRA
Synonyms	ERR1, ESRL1, NR3B1
Function	Binds to an ERR-alpha response element (ERRE) containing a single consensus half-site, 5'-TNAAGGTCA-3'. Can bind to the medium- chain acyl coenzyme A dehydrogenase (MCAD) response element NRRE-1 and may act as an important regulator of MCAD promoter. Binds to the C1 region of the lactoferrin gene promoter. Requires dimerization and the coactivator, PGC-1A, for full activity. The ERRalpha/PGC1alpha complex is a regulator of energy metabolism. Induces the expression of PERM1 in the skeletal muscle.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00407, ECO:0000269|PubMed:18063693, ECO:0000269|PubMed:21190936}. Cytoplasm. Note=Co-localizes to the cytoplasm only in presence of MAPK15.

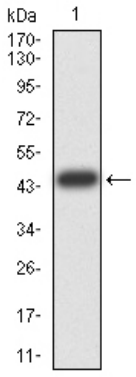
References

1.J Huazhong Univ Sci Technolog Med Sci. 2014 Dec;34(6):875-81. ; 2.Mol Ther. 2014 Apr;22(4):743-51. ;

Images

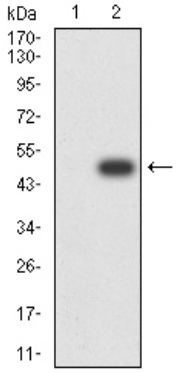


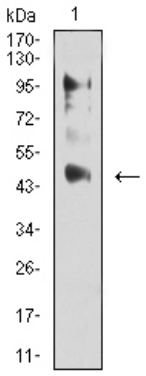
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



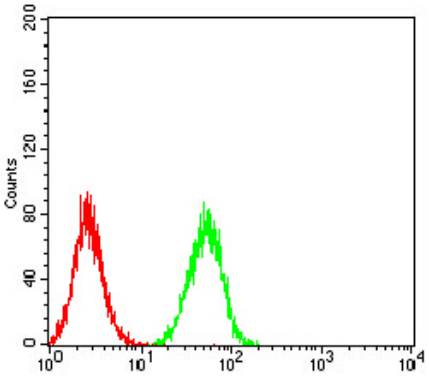
Western blot analysis using ESRRA mAb against human ESRRA (AA: 198-376) recombinant protein. (Expected MW is 45.3 kDa)

Western blot analysis using ESRRA mAb against HEK293 (1) and ESRRA (AA: 198-376)-hIgGFc transfected HEK293 (2) cell lysate.





Western blot analysis using ESRRA mouse mAb against C6 (1) cell lysate.



Flow cytometric analysis of Hela cells using ESRRA mouse mAb (green) and negative control (red).

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