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ESR2 Antibody (Center) (Ascites)

Mouse Monoclonal Antibody (Mab)
Catalog # AM2112a

Specification

ESR2 Antibody (Center) (Ascites) - Product Information

Application	**WB,E**
Primary Accession	Q92731
Other Accession	Q62986, Q9XSW2, Q9PTU5, Q9XSB5, NP_001428, Q9TU15
Reactivity	**Human**
Predicted	**Bovine, Chicken, Pig, Rat, Sheep**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**59216**
Antigen Region	**369-397**

ESR2 Antibody (Center) (Ascites) - Additional Information

Gene ID 2100

Other Names
Estrogen receptor beta, ER-beta, Nuclear receptor subfamily 3 group A member 2, ESR2, ESTRB, NR3A2

Target/Specificity
This ESR2 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 369-397 amino acids from the Central region of human ESR2.

Dilution
WB~~1:100~4000

Format
Mouse monoclonal antibody supplied in crude ascites with 0.09% (W/V) sodium azide.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ESR2 Antibody (Center) (Ascites) is for research use only and not for use in diagnostic or therapeutic procedures.

ESR2 Antibody (Center) (Ascites) - Protein Information

Name ESR2

Synonyms ESTRB, NR3A2

Function Nuclear hormone receptor. Binds estrogens with an affinity similar to that of ESR1/ER-alpha, and activates expression of reporter genes containing estrogen response elements (ERE) in an estrogen- dependent manner (PubMed:20074560).

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00407, ECO:0000269|PubMed:19126643, ECO:0000269|PubMed:20074560}

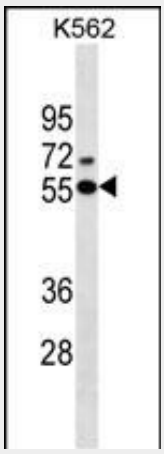
Tissue Location
[Isoform 1]: Expressed in testis and ovary, and at a lower level in heart, brain, placenta, liver, skeletal muscle, spleen, thymus, prostate, colon, bone marrow, mammary gland and uterus Also found in uterine bone, breast, and ovarian tumor cell lines, but not in colon and liver tumors. [Isoform 4]: Expressed in the testis. [Isoform 6]: Expressed in testis, placenta, skeletal muscle, spleen and leukocytes, and at a lower level in heart, lung, liver, kidney, pancreas, thymus, prostate, colon, small intestine, bone marrow, mammary gland and uterus. Not expressed in brain.

ESR2 Antibody (Center) (Ascites) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ESR2 Antibody (Center) (Ascites) - Images



ESR2 Antibody (Center)(Ascites)(Cat. #AM2112a) western blot analysis in K562 cell line lysates (35µg/lane).This demonstrates the ESR2 antibody detected the ESR2 protein (arrow).

ESR2 Antibody (Center) (Ascites) - Background

This gene encodes a member of the family of estrogen receptors and superfamily of nuclear receptor transcription

factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17beta-estradiol or related ligands, the encoded protein forms homo- or hetero-dimers that interact with specific DNA sequences to activate transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been fully characterized.

ESR2 Antibody (Center) (Ascites) - References

Fang, Y.J., et al. Tumour Biol. 31(6):651-658(2010)
Hayes, D.F., et al. Clin. Pharmacol. Ther. 88(5):626-629(2010)
Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010) :
Wurster, M., et al. Oncol. Rep. 24(3):653-659(2010)
Paulus, J.K., et al. Lung Cancer (2010) In press :