

ESR2 / ER Beta Antibody
Rabbit Polyclonal Antibody
Catalog # ALS16486**Specification**

ESR2 / ER Beta Antibody - Product Information

Application	IHC
Primary Accession	O92731
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59kDa KDa

ESR2 / ER Beta Antibody - 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

Human ER Beta/Estrogen Receptor Beta

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

ESR2 / ER Beta Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ESR2 / ER Beta Antibody - 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

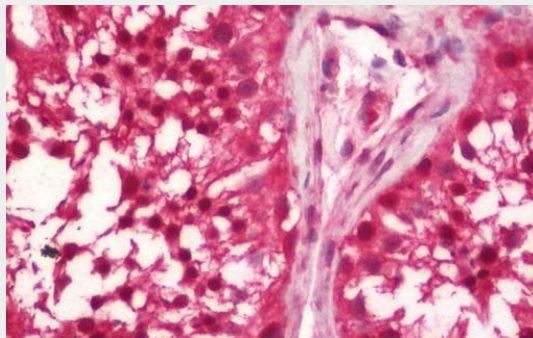
[Isoform 1]: Expressed in testis and ovary, and at a lower level in heart, brain, placenta, liver, skeletal muscle, spleen, thymus, prostate, colon, bone marrow, mammary gland and uterus Also found in uterine bone, breast, and ovarian tumor cell lines, but not in colon and liver tumors. [Isoform 4]: 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 / ER Beta Antibody - Protocols

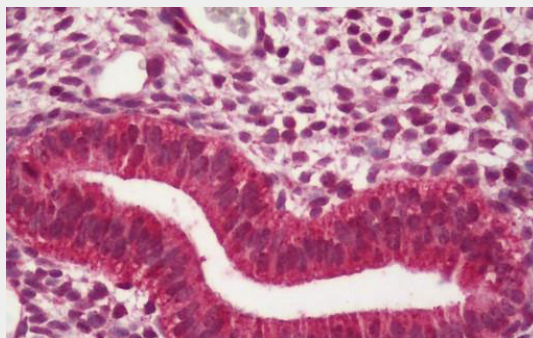
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ESR2 / ER Beta Antibody - Images



Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Uterus, Endometrium: Formalin-Fixed, Paraffin-Embedded (FFPE)

ESR2 / ER Beta Antibody - Background

Nuclear hormone receptor. Binds estrogens with an affinity similar to that of ESR1, and activates expression of reporter genes containing estrogen response elements (ERE) in an estrogen-dependent manner. Isoform beta-cx lacks ligand binding ability and has no or only very low binding activity resulting in the loss of ligand-dependent transactivation ability. DNA-binding by ESR1 and ESR2 is rapidly lost at 37 degrees Celsius in the absence of ligand while in the

presence of 17 beta-estradiol and 4-hydroxy-tamoxifen loss in DNA-binding at elevated temperature is more gradual.