

**ESR2 Antibody(C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP19499b****Specification**

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**ESR2 Antibody(C-term) Blocking peptide - Product Information**Primary Accession [Q92731](#)**ESR2 Antibody(C-term) Blocking peptide - Additional Information****Gene ID** 2100**Other Names**

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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ESR2 Antibody(C-term) Blocking peptide - 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: &lt;a href="http://www.uniprot.org/citations/20074560" target="\_blank"&gt;20074560&lt;/a&gt;).

**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(C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **ESR2 Antibody(C-term) Blocking peptide - Images**

### **ESR2 Antibody(C-term) Blocking peptide - 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 17 $\beta$ -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(C-term) Blocking peptide - 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 :