

ESRRA Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP8635c**Specification**

ESRRA Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P11474](#)**ESRRA Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 2101**Other Names**

Steroid hormone receptor ERR1, Estrogen receptor-like 1, Estrogen-related receptor alpha, ERR-alpha, Nuclear receptor subfamily 3 group B member 1, ESRRA, ERR1, ESRL1, NR3B1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8635c](/products/AP8635c) was selected from the Center region of human ESRRA. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

ESRRA Antibody (Center) Blocking Peptide - 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.

ESRRA Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ESRRA Antibody (Center) Blocking Peptide - Images

ESRRA Antibody (Center) Blocking Peptide - Background

ESRRA 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 transcription 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.

ESRRA Antibody (Center) Blocking Peptide - References

Yang,N., et.al., J. Biol. Chem. 271 (10), 5795-5804 (1996)Wiley,S.R., et.al., Genes Dev. 7 (11), 2206-2219 (1993)