Product Name: **ERR alpha (18W8) Rabbit Monoclonal Antibody**
Catalog #: **AMRe10616**
For research use only.

Summary

Description	Recombinant rabbit monoclonal antibody
Host	Rabbit
Application	WB,FC,IP
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Concentration	0.5mg/ml. The concentration of this product may be batch-dependent.
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1000-1:5000,FC 1:20-1:50,IP 1:20-1:50
Molecular Weight	46kDa

Antigen Information

Gene Name	ESRRA
Alternative Names	ESRRA; ERRa; ERR1; HERR1; NR3B1; Steroid hormone receptor ERR1; ERR-alpha; ERRalpha; ESRL1; Estrogen receptor-like 1; Estrogen-related receptor alpha;
Gene ID	2101.0
SwissProt ID	P11474
Immunogen	A synthetic peptide of human Estrogen Related Receptor alpha

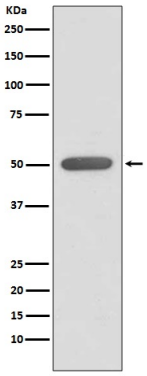
Background

Estrogen-related receptor alpha (ERRα/NR3B1) is an orphan nuclear receptor that controls transcription of genes involved in fatty acid oxidation, glucose metabolism, and mitochondrial biogenesis. The receptor protein contains a non-conserved amino terminal domain (NTD), a central zinc finger DNA binding domain, and a ligand-binding domain. The carboxy-terminal AF2 helix motif of ERRα contains binding sites for nuclear receptor coactivators PGC-1α and PGC-1β. Research studies demonstrate that ERRα transcriptional activity is regulated through phosphorylation and sumoylation within the NTD. 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.

Research Area

Epigenetics and Nuclear Signaling

Image Data



Western blot analysis of ERR alpha expression in HeLa cell lysate.