

Goat Anti-KEO4 / ERLIN1 Antibody
Peptide-affinity purified goat antibody
Catalog # AF2187a**Specification**

Goat Anti-KEO4 / ERLIN1 Antibody - Product Information

Application	WB
Primary Accession	O75477
Other Accession	NP_006450 , 10613
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	39171

Goat Anti-KEO4 / ERLIN1 Antibody - Additional Information**Gene ID** 10613**Other Names**

Erlin-1, Endoplasmic reticulum lipid raft-associated protein 1, Protein KE04, Stomatin-prohibitin-flotillin-HflC/K domain-containing protein 1, SPFH domain-containing protein 1, ERLIN1, C10orf69, KE04, KEO4, SPFH1

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-KEO4 / ERLIN1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-KEO4 / ERLIN1 Antibody - Protein Information**Name** ERLIN1 ([HGNC:16947](#))**Function**

Component of the ERLIN1/ERLIN2 complex which mediates the endoplasmic reticulum-associated degradation (ERAD) of inositol 1,4,5- trisphosphate receptors (IP3Rs). Involved in regulation of cellular cholesterol homeostasis by regulation the SREBP signaling pathway (PubMed:37683630). Binds cholesterol and may promote ER retention of the SCAP-SREBF complex (PubMed:24217618).

Cellular Location

Endoplasmic reticulum membrane; Single-pass type II membrane protein. Note=Associated with lipid raft-like domains of the endoplasmic reticulum membrane

Tissue Location

Expressed in heart, placenta, liver, kidney, pancreas, prostate, testis, ovary and small intestine

Goat Anti-KEO4 / ERLIN1 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](#)

Goat Anti-KEO4 / ERLIN1 Antibody - Images

AF2187a (0.5 µg/ml) staining of Human Placenta lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-KEO4 / ERLIN1 Antibody - References

Proteome analysis of the thalamus and cerebrospinal fluid reveals glycolysis dysfunction and potential biomarkers candidates for schizophrenia. Martins-de-Souza D, et al. J Psychiatr Res, 2010 May 14. PMID 20471030.

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.

SPFH1 and SPFH2 mediate the ubiquitination and degradation of inositol 1,4,5-trisphosphate receptors in muscarinic receptor-expressing HeLa cells. Wang Y, et al. Biochim Biophys Acta, 2009 Nov. PMID 19751772.

An endoplasmic reticulum (ER) membrane complex composed of SPFH1 and SPFH2 mediates the ER-associated degradation of inositol 1,4,5-trisphosphate receptors. Pearce MM, et al. J Biol Chem, 2009 Apr 17. PMID 19240031.

Population-based genome-wide association studies reveal six loci influencing plasma levels of liver enzymes. Yuan X, et al. Am J Hum Genet, 2008 Oct. PMID 18940312.