

Goat Anti-SPFH2 / ERLIN2 Antibody
Peptide-affinity purified goat antibody
Catalog # AF2030a**Specification**

Goat Anti-SPFH2 / ERLIN2 Antibody - Product Information

Application	WB, E
Primary Accession	O94905
Other Accession	NP_009106 , 11160 , 290823 (rat)
Reactivity	Human
Predicted	Rat
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	37840

Goat Anti-SPFH2 / ERLIN2 Antibody - Additional Information**Gene ID** 11160**Other Names**

Erlin-2, Endoplasmic reticulum lipid raft-associated protein 2, Stomatin-prohibitin-flotillin-HflC/K domain-containing protein 2, SPFH domain-containing protein 2, ERLIN2, C8orf2, SPFH2

Dilution

WB~~1:1000

E~~N/A

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-SPFH2 / ERLIN2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-SPFH2 / ERLIN2 Antibody - Protein Information**Name** ERLIN2**Synonyms** C8orf2, SPFH2

Function

Component of the ERLIN1/ERLIN2 complex which mediates the endoplasmic reticulum-associated degradation (ERAD) of inositol 1,4,5- trisphosphate receptors (IP3Rs) such as ITPR1 (PubMed:17502376, PubMed:19240031). Promotes sterol-accelerated ERAD of HMGCR probably implicating an AMFR/gp78-containing ubiquitin ligase complex (PubMed:21343306). Involved in regulation of cellular cholesterol homeostasis by regulation the SREBP signaling pathway. 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

Ubiquitous..

Goat Anti-SPFH2 / ERLIN2 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-SPFH2 / ERLIN2 Antibody - Images

AF2030a staining (1 µg/ml) of Human Breast lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Goat Anti-SPFH2 / ERLIN2 Antibody - References

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.

Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.

SPFH2 mediates the endoplasmic reticulum-associated degradation of inositol 1,4,5-trisphosphate receptors and other substrates in mammalian cells. Pearce MM, et al. J Biol Chem, 2007 Jul 13. PMID 17502376.

Erlin-1 and erlin-2 are novel members of the prohibitin family of proteins that define lipid-raft-like domains of the ER. Browman DT, et al. J Cell Sci, 2006 Aug 1. PMID 16835267.