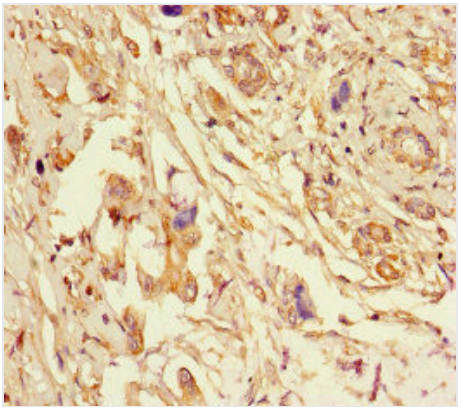
ERLIN2 Antibody – Rabbit Polyclonal

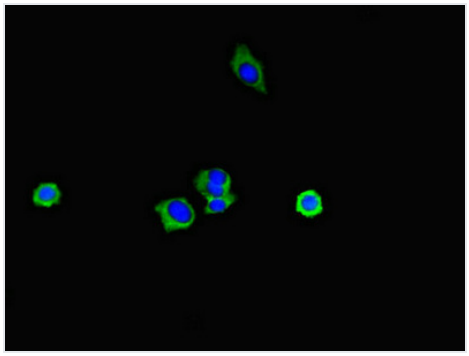
PRODUCT OVERVIEW

Product Name	ERLIN2, Polyclonal Antibody
Full Product Name	ERLIN2 Antibody
Product Gene Name	anti-ERLIN2 antibody
Product Synonym Names	Erlin-2; Endoplasmic reticulum lipid raft-associated protein 2; Stomatin-prohibitin-flotillin-HflC/K domain-containing protei; ERLIN2; C8orf2; SPFH2; UNQ2441/PRO5003/PRO9924
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: ERLIN2 (MBS7043753) Biotin Conjugated Antibody: ERLIN2 (MBS7045952)
Matching Pairs	Unconjugated Antibody: ERLIN2 (MBS7043753) FITC Conjugated Antibody: ERLIN2 (MBS7046336)
Matching Pairs	Unconjugated Antibody: ERLIN2 (MBS7043753) HRP Conjugated Antibody: ERLIN2 (MBS7046431)
Molecular Weight	22,939 Da
OMIM	611225
3D Structure	ModBase 3D Structure for O94905
Species	Human
Immunogen	Recombinant human Erlin-2 protein
Conjugate	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-82035
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ERLIN2 antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF)
Related Product Information for anti-ERLIN2 antibody	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:19240031, PubMed:17502376). 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).

Other Notes	Small volumes of anti-ERLIN2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ERLIN2 purchase	MBS7043753 is an antibody targeting ERLIN2. Also known as ERLIN2 Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-ERLIN2 antibody
Immunohistochemistry of paraffin-embedded human pancreatic cancer using MBS7043753 at dilution of 1:100



Immunofluorescence (IF) of anti-ERLIN2 antibody
Immunofluorescent analysis of HepG2 cells using MBS7043753 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ERLIN2. It may not necessarily be applicable to this product.

NCBI GI #	51242968
NCBI GeneID	11160
NCBI Accession #	NP_001003790.1
UniProt Primary Accession #	O94905
UniProt Secondary Accession #	Q6NW21; Q86VS6; Q86W49; A0JLQ1; A8K5S9; B4DM38; D3DSW0
UniProt Related Accession #	O94905
GenBank Nucleotide #	NM_001003790.3
NCBI Official Full Name	erlin-2 isoform 2
NCBI Official Synonym Full Names	ER lipid raft associated 2
NCBI Official Symbol	ERLIN2
NCBI Official Synonym Symbols	NET32; SPFH2; SPG18; C8orf2; Erlin-2
UniProt Protein Name	Erlin-2
UniProt Synonym Protein Names	Endoplasmic reticulum lipid raft-associated protein 2; Stomatin-prohibitin-flotillin-HflC/K domain-containing protein 2; SPFH domain-containing protein 2
Protein Family	Erlin
UniProt Gene Name	ERLIN2
UniProt Synonym Gene Names	C8orf2; SPFH2; SPFH domain-containing protein 2
UniProt Entry Name	ERLN2_HUMAN
NCBI Protein Information	erlin-2

NCBI Summary for ERLIN2	This gene encodes a member of the SPFH domain-containing family of lipid raft-associated proteins. The encoded protein is localized to lipid rafts of the endoplasmic reticulum and plays a critical role in inositol 1,4,5-trisphosphate (IP3) signaling by mediating ER-associated degradation of activated IP3 receptors. Mutations in this gene are a cause of spastic paraplegia-18 (SPG18). Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012]
UniProt Comments for ERLIN2	SPFH2: Component of the ERLIN1/ERLIN2 complex which mediates the endoplasmic reticulum-associated degradation (ERAD) of inositol 1,4,5-trisphosphate receptors (IP3Rs). Also involved in ITPR1 degradation by the ERAD pathway. Interacts with activated ITPR1, independently of the degree of ITPR1 polyubiquitination. Forms a heteromeric complex with ERLIN1. Ubiquitous. Belongs to the band 7/mec-2 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Endoplasmic reticulum; Membrane protein, integral Chromosomal Location of Human Ortholog: 8p11.2 Cellular Component: cytoplasm; endoplasmic reticulum; endoplasmic reticulum membrane; lipid raft; plasma membrane; protein complex Molecular Function: cholesterol binding; protein binding; protein-tyrosine kinase activity; ubiquitin protein ligase binding Biological Process: ER-associated protein catabolic process; negative regulation of cholesterol biosynthetic process; negative regulation of fatty acid biosynthetic process; SREBP-mediated signaling pathway Disease: Spastic Paraplegia 18, Autosomal Recessive
Research Articles on ERLIN2	**1.** Erlin-2 and the related erlin-1 were found to negatively regulate cholesterol and fatty acid biosynthesis in cultured cell models when the proteins were depleted by RNAi. The proteins also selectively bound cholesterol.
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Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/erlin2/7043753