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SYVN1 / HRD1 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10978

Specification

SYVN1 / HRD1 Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	Q86TM6
Reactivity	**Human, Mouse, Rabbit, Zebrafish, Hamster, Monkey, Horse, Xenopus, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**68kDa KDa**

SYVN1 / HRD1 Antibody (Internal) - Additional Information

Gene ID 84447

Other Names
E3 ubiquitin-protein ligase synoviolin, 6.3.2.-, Synovial apoptosis inhibitor 1, SYVN1, HRD1, KIAA1810

Target/Specificity
Human SYVN1 / HRD1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
SYVN1 / HRD1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

SYVN1 / HRD1 Antibody (Internal) - Protein Information

Name SYVN1

Synonyms HRD1, KIAA1810

Function
E3 ubiquitin-protein ligase which accepts ubiquitin specifically from endoplasmic reticulum-associated UBC7 E2 ligase and transfers it to substrates, promoting their degradation (PubMed:12459480, PubMed:12646171, PubMed:12975321, PubMed:14593114, PubMed:16289116,

PubMed:16847254, PubMed:17059562, PubMed:17141218, PubMed:17170702, PubMed:22607976, PubMed:26471130, PubMed:28827405). Component of the endoplasmic reticulum quality control (ERQC) system also called ER-associated degradation (ERAD) involved in ubiquitin- dependent degradation of misfolded endoplasmic reticulum proteins (PubMed:12459480, PubMed:12646171, PubMed:12975321, PubMed:14593114, PubMed:16289116, PubMed:16847254, PubMed:17059562, PubMed:17141218, PubMed:17170702, PubMed:22607976, PubMed:26471130, PubMed:28842558). Also promotes the degradation of normal but naturally short-lived proteins such as SGK. Protects cells from ER stress-induced apoptosis. Protects neurons from apoptosis induced by polyglutamine-expanded huntingtin (HTT) or unfolded GPR37 by promoting their degradation (PubMed:17141218). Sequesters p53/TP53 in the cytoplasm and promotes its degradation, thereby negatively regulating its biological function in transcription, cell cycle regulation and apoptosis (PubMed:17170702). Mediates the ubiquitination and subsequent degradation of cytoplasmic NFE2L1 (By similarity). During the early stage of B cell development, required for degradation of the pre-B cell receptor (pre-BCR) complex, hence supporting further differentiation into mature B cells (By similarity).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein

Tissue Location
Ubiquitously expressed, with highest levels in liver and kidney (at protein level). Up-regulated in synovial tissues from patients with rheumatoid arthritis (at protein level)

SYVN1 / HRD1 Antibody (Internal) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SYVN1 / HRD1 Antibody (Internal) - Images

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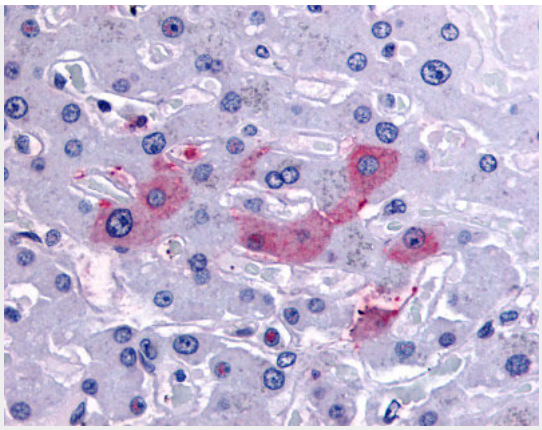

Anti-SYVN1 / HRD1 antibody ALS10978 IHC of human liver.

SYVN1 / HRD1 Antibody (Internal) - Background

Acts as an E3 ubiquitin-protein ligase which accepts ubiquitin specifically from endoplasmic reticulum-associated UBC7 E2 ligase and transfers it to substrates, promoting their degradation. Component of the endoplasmic reticulum quality control (ERQC) system also called ER-associated degradation (ERAD) involved in ubiquitin-dependent degradation of misfolded endoplasmic reticulum proteins. Also promotes the degradation of normal but naturally short-lived proteins such as SGK. Protects cells from ER stress-induced apoptosis. Protects neurons from apoptosis induced by polyglutamine-expanded huntingtin (HTT) or unfolded GPR37 by promoting their degradation. Sequesters p53/TP53 in the cytoplasm and promotes its degradation, thereby negatively regulating its biological function in transcription, cell cycle regulation and apoptosis.

SYVN1 / HRD1 Antibody (Internal) - References

Kaneko M.,et al.FEBS Lett. 532:147-152(2002).
Nadav E.,et al.Biochem. Biophys. Res. Commun. 303:91-97(2003).
Amano T.,et al.Genes Dev. 17:2436-2449(2003).
Kikkert M.,et al.J. Biol. Chem. 279:3525-3534(2004).
Nagase T.,et al.DNA Res. 8:85-95(2001).