

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](http://www.uniprot.org/citations/12459480), PubMed: [12646171](http://www.uniprot.org/citations/12646171), PubMed: [12975321](http://www.uniprot.org/citations/12975321), PubMed: [14593114](http://www.uniprot.org/citations/14593114), PubMed: [16289116](http://www.uniprot.org/citations/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

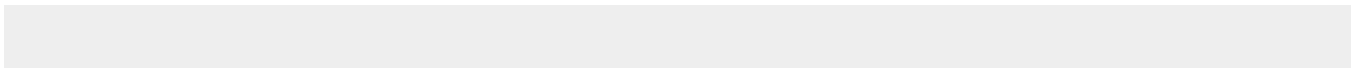
Ubiquitously expressed, with highest levels in liver and kidney (at protein level). Up-regulated in synovial tissues from patients with rheumatoid arthritis (at protein level)

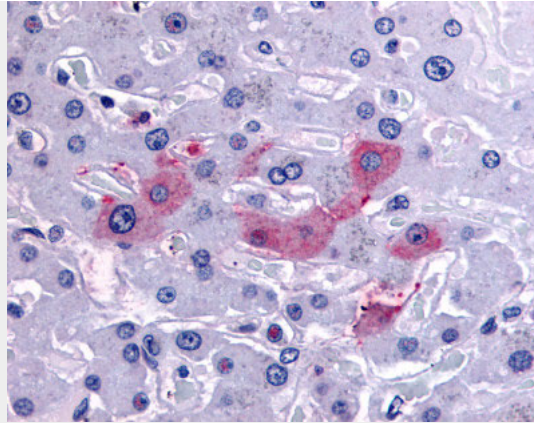
SYVN1 / HRD1 Antibody (Internal) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SYVN1 / HRD1 Antibody (Internal) - Images





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).