

SYVN1 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3101a

Specification

SYVN1 Antibody (internal region) - Product Information

Application	WB
Primary Accession	Q86TM6
Other Accession	NP_115807.1 , NP_757385.1 , 84447 , 361712 (rat)
Reactivity	Human
Predicted	Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	67685

SYVN1 Antibody (internal region) - Additional Information

Gene ID 84447

Other Names

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

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 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

SYVN1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

SYVN1 Antibody (internal region) - 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)

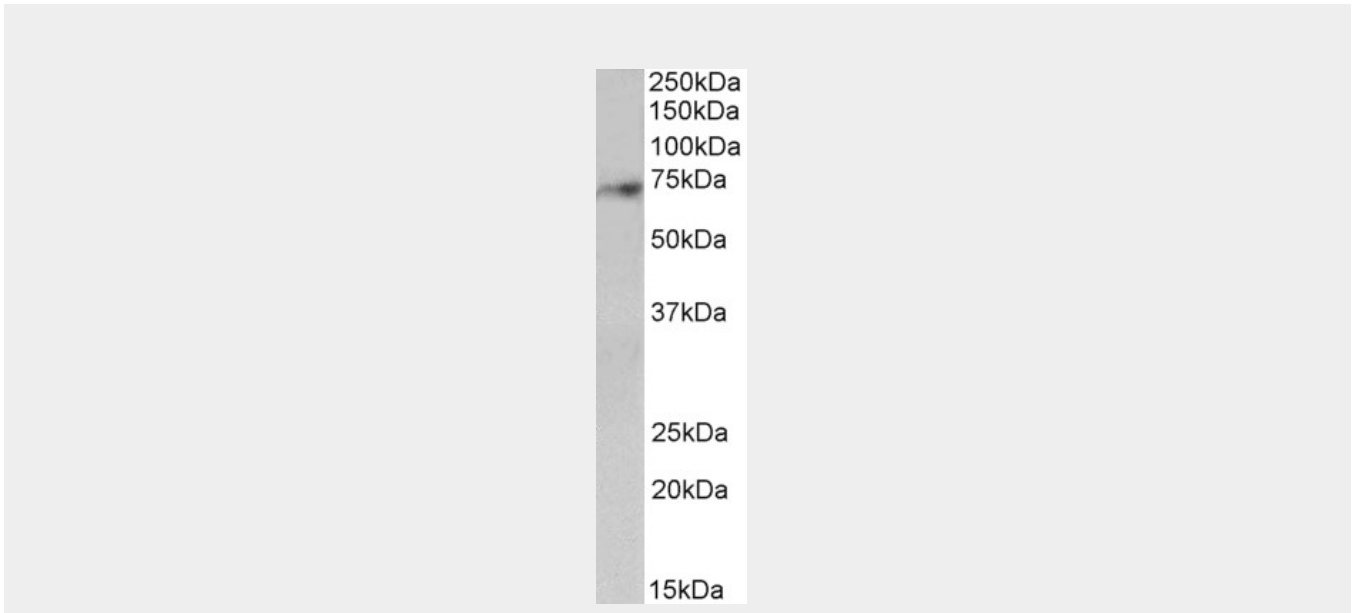
SYVN1 Antibody (internal region) - Protocols

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 Antibody (internal region) - Images



AF3101a (2 µg/ml) staining of Human Cerebellum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

SYVN1 Antibody (internal region) - Background

This antibody is expected to recognize isoforms a and b (NP_115807.1; NP_757385.1).

SYVN1 Antibody (internal region) - References

[Possible involvement of HRD1 (ubiquitin E3 ligase) in neurodegenerative diseases] Kaneko M, Nippon yakurigaku zasshi. Folia pharmacologica Japonica 2009 May 133 (5): 252-6. PMID: 19443960