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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 Cytomety

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- 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