

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

### Specification

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#### SYVN1 Antibody (internal region) - Product Information

Application	WB
Primary Accession	<a href="#">Q86TM6</a>
Other Accession	<a href="#">NP_115807.1</a> , <a href="#">NP_757385.1</a> , <a href="#">84447</a> , <a href="#">361712</a> (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:<a href="http://www.uniprot.org/citations/12459480" target="\_blank">12459480</a>),

PubMed: <a href="http://www.uniprot.org/citations/12646171" target="\_blank">12646171</a>,  
PubMed: <a href="http://www.uniprot.org/citations/12975321" target="\_blank">12975321</a>,  
PubMed: <a href="http://www.uniprot.org/citations/14593114" target="\_blank">14593114</a>,  
PubMed: <a href="http://www.uniprot.org/citations/16289116" target="\_blank">16289116</a>,  
PubMed: <a href="http://www.uniprot.org/citations/16847254" target="\_blank">16847254</a>,  
PubMed: <a href="http://www.uniprot.org/citations/17059562" target="\_blank">17059562</a>,  
PubMed: <a href="http://www.uniprot.org/citations/17141218" target="\_blank">17141218</a>,  
PubMed: <a href="http://www.uniprot.org/citations/17170702" target="\_blank">17170702</a>,  
PubMed: <a href="http://www.uniprot.org/citations/22607976" target="\_blank">22607976</a>,  
PubMed: <a href="http://www.uniprot.org/citations/26471130" target="\_blank">26471130</a>,  
PubMed: <a href="http://www.uniprot.org/citations/28827405" target="\_blank">28827405</a>).  
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: <a href="http://www.uniprot.org/citations/12459480" target="\_blank">12459480</a> , PubMed: <a href="http://www.uniprot.org/citations/12646171" target="\_blank">12646171</a> , PubMed: <a href="http://www.uniprot.org/citations/12975321" target="\_blank">12975321</a> , PubMed: <a href="http://www.uniprot.org/citations/14593114" target="\_blank">14593114</a> , PubMed: <a href="http://www.uniprot.org/citations/16289116" target="\_blank">16289116</a> , PubMed: <a href="http://www.uniprot.org/citations/16847254" target="\_blank">16847254</a> , PubMed: <a href="http://www.uniprot.org/citations/17059562" target="\_blank">17059562</a> , PubMed: <a href="http://www.uniprot.org/citations/17141218" target="\_blank">17141218</a> , PubMed: <a href="http://www.uniprot.org/citations/17170702" target="\_blank">17170702</a> , PubMed: <a href="http://www.uniprot.org/citations/22607976" target="\_blank">22607976</a> , PubMed: <a href="http://www.uniprot.org/citations/26471130" target="\_blank">26471130</a> , PubMed: <a href="http://www.uniprot.org/citations/28842558" target="\_blank">28842558</a>). 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: <a href="http://www.uniprot.org/citations/17141218" target="\_blank">17141218</a>). Sequesters p53/TP53 in the cytoplasm and promotes its degradation, thereby negatively regulating its biological function in transcription, cell cycle regulation and apoptosis (PubMed: <a href="http://www.uniprot.org/citations/17170702" target="\_blank">17170702</a>). 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)

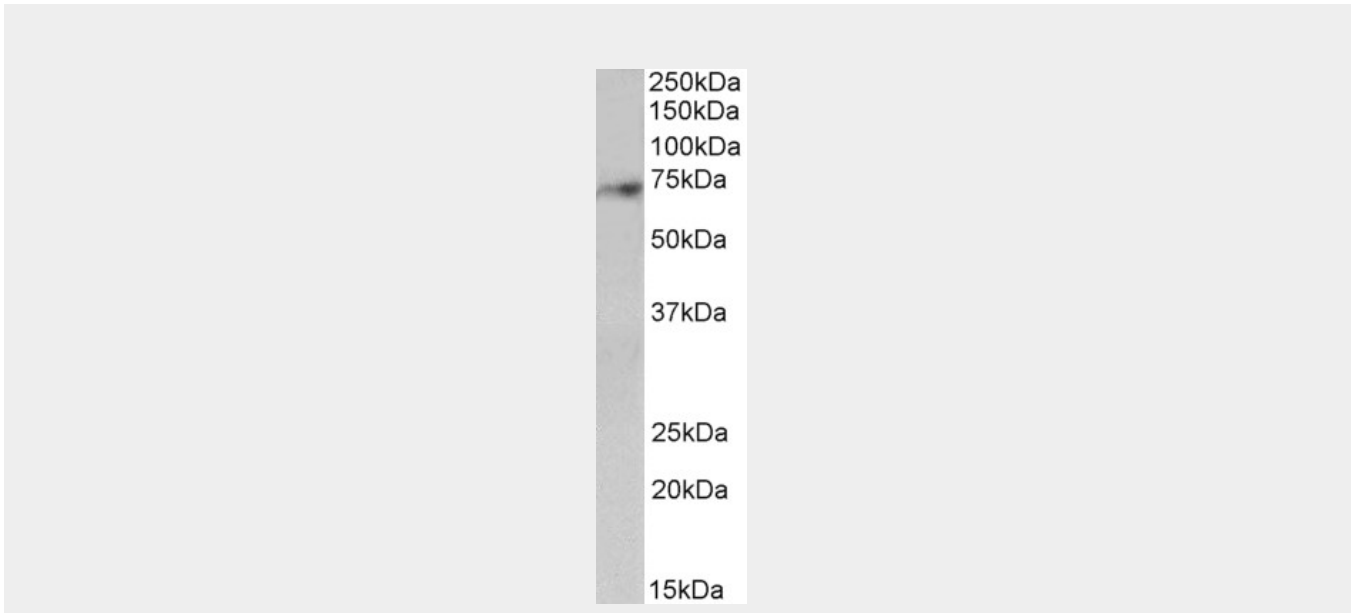
#### SYVN1 Antibody (internal region) - Protocols

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  $\mu$ g/ml) staining of Human Cerebellum lysate (35  $\mu$ g 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