

# SYVN1 / HRD1 Antibody

Rabbit mAb

Catalog # AP93248

## Product Information

<b>Application</b>	WB, IF, FC, ICC, IP
<b>Primary Accession</b>	<a href="#">Q86TM6</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	DER3; E3 ubiquitin-protein ligase synoviolin; HRD1; Synovial apoptosis inhibitor 1; Synoviolin 1; Synoviolin 1 isoform b; SYNOVIOLIN; SYVN1;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	67685

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human SYVN1 / HRD1
<b>Description</b>	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.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

<b>Name</b>	SYVN1 {ECO:0000303   PubMed:15489334}
<b>Function</b>	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="#">12459480</a> , PubMed: <a href="#">12646171</a> , PubMed: <a href="#">12975321</a> , PubMed: <a href="#">14593114</a> , PubMed: <a href="#">16289116</a> , PubMed: <a href="#">16847254</a> , PubMed: <a href="#">17059562</a> , PubMed: <a href="#">17141218</a> , PubMed: <a href="#">17170702</a> , PubMed: <a href="#">22607976</a> , PubMed: <a href="#">27827840</a> , PubMed: <a href="#">26471130</a> , PubMed: <a href="#">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="#">12459480</a> , PubMed: <a href="#">12646171</a> , PubMed: <a href="#">12975321</a> , PubMed: <a href="#">14593114</a> , PubMed: <a href="#">16289116</a> , PubMed: <a href="#">16847254</a> , PubMed: <a href="#">17059562</a> , PubMed: <a href="#">17141218</a> , PubMed: <a href="#">17170702</a> , PubMed: <a href="#">22607976</a> , PubMed: <a href="#">26471130</a> , PubMed: <a href="#">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:[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)

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