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SYVN1 Rabbit pAb

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Catalog # AP52288

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q86TM6
Reactivity	Rat, Human, Mouse
Predicted	Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	67685
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SYVN1
Epitope Specificity	531-617/617
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane; Multi-pass membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a protein involved in endoplasmic reticulum (ER)-associated degradation. The encoded protein removes unfolded proteins, accumulated during ER stress, by retrograde transport to the cytosol from the ER. This protein also uses the ubiquitin-proteasome system for additional degradation of unfolded proteins. Sequence analysis identified two transcript variants that encode different isoforms. [provided by RefSeq, May 2011]

Additional Information

Gene ID	84447
Other Names	E3 ubiquitin-protein ligase synoviolin, 2.3.2.27, RING-type E3 ubiquitin transferase synoviolin, Synovial apoptosis inhibitor 1, SYVN1 {ECO:0000303|PubMed:15489334}
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=3 μg/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SYVN1 {ECO:0000303|PubMed:15489334}
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:27827840, 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)

Background

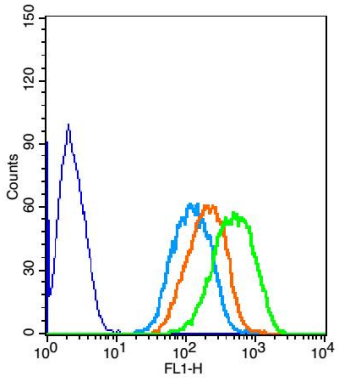
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

References

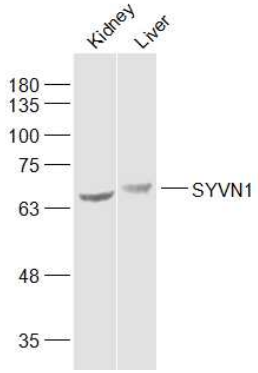
Kaneko M.,et al.FEBS Lett. 532:147-152(2002).
Nadav E.,et al.Biochem. Biophys. Res. Commun. 303:91-97(2003).
Amano T.,et al.Genes Dev. 17:2436-2449(2003).
Kikkert M.,et al.J. Biol. Chem. 279:3525-3534(2004).
Nagase T.,et al.DNA Res. 8:85-95(2001).

Images

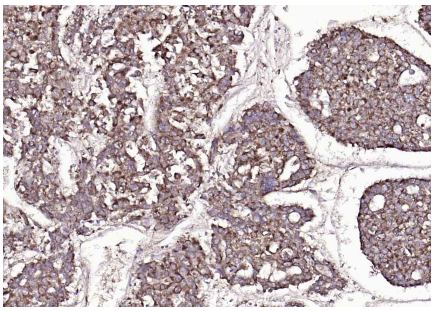
The figure annotation:
The blue histogram is unstained cells.
The Wathet Blue histogram is cells stained with secondary antibody (AP52288-FITC) alone.
The Orange histogram is cells stained with rabbit IgG isotype control antibody(AP52288)plus secondary



antibody.
The green histogram is cells stained with Rabbit Anti-SYVN1 antibody (AP52288) plus secondary antibody.
Positive control: Hepg2 cells
Concentration: 1:50



Sample:
Kidney (Mouse) Lysate at 40 ug
Liver (Mouse) Lysate at 40 ug
Primary: Anti-SYVN1 (AP52288) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 65 kD
Observed band size: 65/70 kD



Paraformaldehyde-fixed, paraffin embedded (human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (SYVN1) Polyclonal Antibody, Unconjugated (AP52288) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.