

SYVN1 (D3O2A) Rabbit mAb

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Applications: W, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 75	Source/Isotype: Rabbit IgG	UniProt ID: #Q86TM6	Entrez-Gene Id: 84447
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:200
1:3200 - 1:6400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

SYVN1 (D3O2A) Rabbit mAb recognizes endogenous levels of total SYVN1 protein. This antibody does not cross-react with AMFR protein, but may cross-react with an unidentified protein of 60 kDa.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human SYVN1 protein.

Background

Synoviolin-1 (SYVN1/HRD1) is a RING-type E3 ubiquitin-protein ligase and major component of the endoplasmic reticulum (ER) quality control system that is involved in the ubiquitin-dependent degradation of misfolded proteins (1). SYVN1 is a multispansing ER membrane protein whose expression is upregulated at the protein level under conditions that promote ER stress (1-4). Research studies have shown that SYVN1 is an anti-apoptotic factor that is implicated in the pathogenesis of arthropathy by promoting synovial hyperplasia (5). Furthermore, gene-targeting studies have demonstrated that SYVN1 expression is indispensable for embryogenesis (6).

Background References

1. Kikkert, M. et al. (2004) *J Biol Chem* 279, 3525-34.
2. Kaneko, M. et al. (2007) *FEBS Lett* 581, 5355-60.
3. Yamamoto, K. et al. (2008) *J Biochem* 144, 477-86.
4. Nadav, E. et al. (2003) *Biochem Biophys Res Commun* 303, 91-7.
5. Amano, T. et al. (2003) *Genes Dev* 17, 2436-49.
6. Yagishita, N. et al. (2005) *J Biol Chem* 280, 7909-16.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **Mk:** Monkey

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