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Datasheet for ABIN6991443 **anti-SYNPO2 antibody (N-Term)**

Overview

Quantity:	0.1 mg
Target:	SYNPO2
Binding Specificity:	AA 320-370, N-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SYNPO2 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	SYNPO2 antibody was raised against a 20 amino acid synthetic peptide near the amino terminus of human SYNPO2. The immunogen is located within amino acids 320 - 370 of SYNPO2.
Isotype:	IgG
Purification:	SYNPO2 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	SYNPO2
Alternative Name:	SYNPO2 (SYNPO2 Products)
Background:	SYNPO2 Antibody: SYNPO2 was initially identified as myopodin, a member of the synaptopodin

Target Details

family that contains one PPXY motif and multiple PXXP motifs. It colocalizes with alpha-actinin and is found at the Z-disc and during stress conditions will translocate to the nucleus, suggesting that it is part of signaling pathways in addition to its function as a structural protein. SYNPO2 has been shown to bind to calmodulin, alpha-actinin, and smooth muscle myosin and will stimulate actin polymerization in a calmodulin dependent manner, consistent with its proposed role in organizing the cytoskeleton. While deletion of SYNPO2 has been reported to be highly correlated with the invasiveness of prostate cancers, other reports suggest that down-regulation of SYNPO2 reduces the invasiveness and motility of prostate cancer cells.

Gene ID: 171024

NCBI Accession: [NP_597734](#)

UniProt: [Q9UMS6](#)

Application Details

Application Notes: SYNPO2 antibody can be used for detection of SYNPO2 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

Antibody validated: Western Blot in human samples, Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: SYNPO2 Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, 4 °C

Storage Comment: SYNPO2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should

not be exposed to prolonged high temperatures.