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Product datasheet for TA320130

Synaptopodin 2 (SYNPO2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	SYNPO2 antibody was raised against a 20 amino acid synthetic peptide near the amino terminus of human SYNPO2.
Formulation:	SYNPO2 Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	SYNPO2 Antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	synaptopodin 2
Database Link:	NP_597734 Entrez Gene 118449 MouseEntrez Gene 171024 Human Q9UMS6

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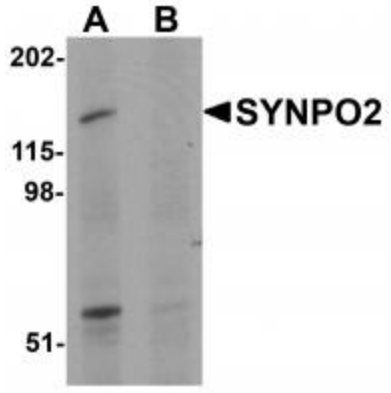
Background: SYNPO2 Antibody: SYNPO2 was initially identified as myopodin, a member of the synaptopodin family that contains one PPXY motif and multiple PXXP motifs. It colocalizes with alpha-actinin and is found at the Z-disc and during stress conditions will translocate to the nucleus, suggesting that 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.

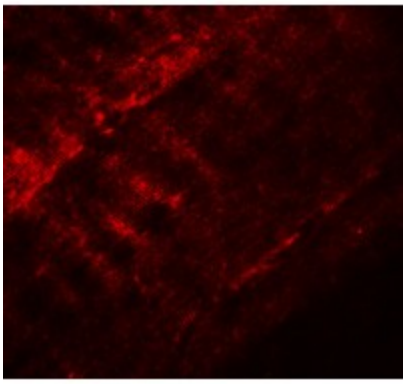
Synonyms: DKFZp686G051

Product images:



Western blot analysis of SYNPO2 in human skeletal muscle tissue lysate with SYNPO2 antibody at 1 ug/mL in (A) the absence and (B) the presence of blocking peptide.

Immunohistochemistry of SYNPO2 in mouse skeletal muscle tissue with SYNPO2 antibody at 5 ug/mL.



Immunofluorescence of SYNPO2 in mouse skeletal muscle tissue with SYNPO2 antibody at 20 ug/mL.