10320 Camino Santa Fe, Suite G
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SYNPO2L Antibody
Catalog # ASC11236

Specification

SYNPO2L Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	Q9H987
Other Accession	BAD37139, 51534920
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**SYNPO2L antibody can be used for detection of SYNPO2L 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.**

SYNPO2L Antibody - Additional Information

Gene ID	**79933**

Target/Specificity
SYNPO2L;

Reconstitution & Storage
SYNPO2L antibody can be stored at 4℃ for three months and -20℃, 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.

Precautions
SYNPO2L Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SYNPO2L Antibody - Protein Information

Name SYNPO2L

Function
Actin-associated protein that may play a role in modulating actin-based shape.

Cellular Location
Cytoplasm, cytoskeleton.

SYNPO2L Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

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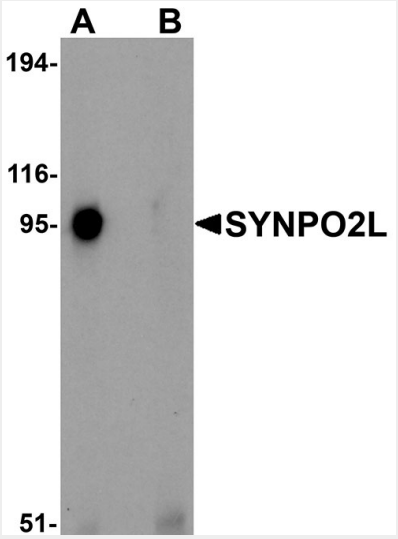
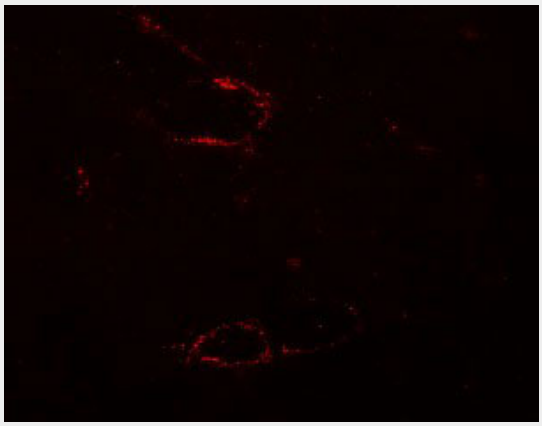
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SYNPO2L Antibody - Images



Western blot analysis of SYNPO2L in human thymus tissue lysate with SYNPO2L antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of SYNPO2L in mouse skeletal muscle tissue with SYNPO2L antibody at 5 µg/mL.

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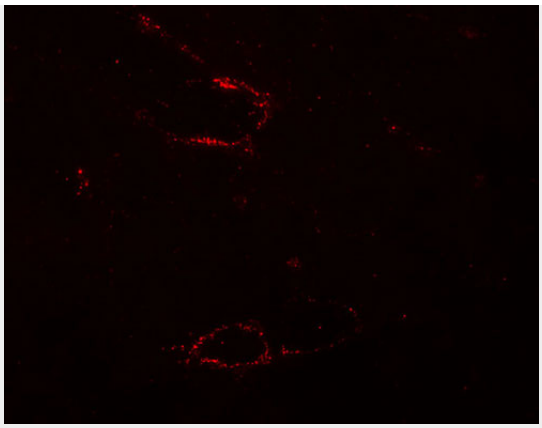

Immunofluorescence of SYNPO2L in mouse skeletal muscle tissue with SYNPO2L antibody at 20 µg/mL.

SYNPO2L Antibody - Background

SYNPO2L Antibody: SYNPO2L was initially identified as a novel heart-enriched gene that encodes a cytoskeletal protein highly expressed in the Z-disc of heart and skeletal muscle, associates with actin and interacts with a-actinin. It is a member of the synaptopodin family, sharing greatest homology with Synaptopodin 2. Recent studies have shown that SYNPO2L, while primarily localized to the sarcomere, can also translocate to the nucleus. A knockdown of SYNPO2L in zebrafish resulted in aberrant cardiac and skeletal muscle development and function, suggesting that it is a critical component of the sarcomere and plays an important role in muscle development.

SYNPO2L Antibody - References

Beqqali A, Kloots J, Ward-van Oostward D, et al. Genome-wide transcriptional profiling of human embryonic stem cells differentiating to cardiomyocytes. Stem Cells2006; 24:1956-67.
Beqqali A, Manshouwer-Kloots J, Moneiro R, et al. CHAP is a newly identified Z-disc protein essential for heart and skeletal muscle function. J. Cell Sci.2010; 123:1141-50.