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AVIL Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP4756a

Specification

AVIL Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O75366

AVIL Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 10677

Other Names
Advillin, p92, AVIL

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AVIL Antibody (N-term) Blocking Peptide - Protein Information

Name AVIL (HGNC:14188)

Function
Ca(2+)-regulated actin-binding protein which plays an important role in actin bundling (PubMed:29058690). May have a unique function in the morphogenesis of neuronal cells which form ganglia. Required for SREC1-mediated regulation of neurite-like outgrowth. Plays a role in regenerative sensory axon outgrowth and remodeling processes after peripheral injury in neonates. Involved in the formation of long fine actin-containing filopodia-like structures in fibroblast. Plays a role in ciliogenesis. In podocytes, controls lamellipodia formation through the regulation of EGF-induced diacylglycerol generation by PLCE1 and ARP2/3 complex assembly (PubMed:29058690).

Cellular Location
Cytoplasm, cytoskeleton. Cell projection, lamellipodium. Cell junction, focal adhesion. Cell projection, neuron projection {ECO:0000250|UniProtKB:Q9WU06}. Cell projection, axon {ECO:0000250|UniProtKB:Q9WU06}. Note=In podocytes, present in the F- actin-enriched cell periphery that generates lamellipodia and focal adhesions.

Tissue Location
Most highly expressed in the small intestine and colonic lining. Weaker expression also detected in

the thymus, prostate, testes and uterus (PubMed:12034507). Expressed in podocytes (at protein level) (PubMed:29058690).

AVIL Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

AVIL Antibody (N-term) Blocking Peptide - Images

AVIL Antibody (N-term) Blocking Peptide - Background

AVIL is a member of the gelsolin/villin family of actin regulatory proteins. This protein has structural similarity to villin. It binds actin and may play a role in the development of neuronal cells that form ganglia.

AVIL Antibody (N-term) Blocking Peptide - References

Piana, S., et al. J. Mol. Biol. 375(2):460-470(2008)Vermeulen, W., et al. Protein Sci. 13(5):1276-1287(2004)Tumer, Z., et al. Gene 288 (1-2), 179-185 (2002)