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WASL Blocking Peptide (N-term)
Synthetic peptide
Catalog # BP21413a

Specification

WASL Blocking Peptide (N-term) - Product Information

Primary Accession O00401

WASL Blocking Peptide (N-term) - Additional Information

Gene ID 8976

Other Names
Neural Wiskott-Aldrich syndrome protein, N-WASP, WASL

Target/Specificity
The synthetic peptide sequence is selected from aa 165-178 of HUMAN WASL

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.

WASL Blocking Peptide (N-term) - Protein Information

Name WASL

Function
Regulates actin polymerization by stimulating the actin- nucleating activity of the Arp2/3 complex (PubMed:16767080, PubMed:19366662, PubMed:19487689, PubMed:22847007, PubMed:22921828, PubMed:9422512). Involved in various processes, such as mitosis and cytokinesis, via its role in the regulation of actin polymerization (PubMed:19366662, PubMed:19487689, PubMed:22847007, PubMed:22921828, PubMed:9422512). Together with CDC42, involved in the extension and maintenance of the formation of thin, actin-rich surface projections called filopodia (PubMed:<a

href="http://www.uniprot.org/citations/9422512" target="_blank">9422512). In addition to its role in the cytoplasm, also plays a role in the nucleus by regulating gene transcription, probably by promoting nuclear actin polymerization (PubMed:16767080). Binds to HSF1/HSTF1 and forms a complex on heat shock promoter elements (HSE) that negatively regulates HSP90 expression (By similarity). Plays a role in dendrite spine morphogenesis (By similarity). Decreasing levels of DNMBP (using antisense RNA) alters apical junction morphology in cultured enterocytes, junctions curve instead of being nearly linear (PubMed:19767742).

Cellular Location
Cytoplasm, cytoskeleton. Nucleus Cytoplasm {ECO:0000250|UniProtKB:Q91YD9}. Note=Preferentially localized in the cytoplasm when phosphorylated and in the nucleus when unphosphorylated (By similarity). Exported from the nucleus by an nuclear export signal (NES)-dependent mechanism to the cytoplasm (By similarity). {ECO:0000250|UniProtKB:Q91YD9}

WASL Blocking Peptide (N-term) - Protocols

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

- Blocking Peptides

WASL Blocking Peptide (N-term) - Images

WASL Blocking Peptide (N-term) - Background

Regulates actin polymerization by stimulating the actin- nucleating activity of the Arp2/3 complex. Involved in mitosis and cytokinesis, via its role in the regulation of actin polymerization. Binds to HSF1/HSTF1 and forms a complex on heat shock promoter elements (HSE) that negatively regulates HSP90 expression.

WASL Blocking Peptide (N-term) - References

Fukuoka M.,et al.Gene 196:43-48(1997).
Lennerz V.,et al.Submitted (JUL-2006) to the EMBL/GenBank/DDBJ databases.
Hillier L.W.,et al.Nature 424:157-164(2003).
Suzuki T.,et al.EMBO J. 17:2767-2776(1998).
Egile C.,et al.J. Cell Biol. 146:1319-1332(1999).