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phospho-N WASP (Tyr256) Rabbit pAb

Catalog # AP99202

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O00401
Other Accession	O00401
Reactivity	Rat, Mouse
Predicted	Pig, Human, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54827
Physical State	Liquid
Immunogen	KLH conjugated synthesised phosphopeptide derived from human N WASP around the phosphorylation site of Tyr256
Epitope Specificity	VI(p-Y)DF
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 CRIB domain. Contains 1 WH1 domain. Contains 2 WH2 domains.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the Wiskott-Aldrich syndrome (WAS) protein family. Wiskott-Aldrich syndrome proteins share similar domain structure, and associate with a variety of signaling molecules to alter the actin cytoskeleton. The encoded protein is highly expressed in neural tissues, and interacts with several proteins involved in cytoskeletal organization, including cell division control protein 42 (CDC42) and the actin-related protein-2/3 (ARP2/3) complex. The encoded protein may be involved in the formation of long actin microspikes, and in neurite extension. [provided by RefSeq, Jul 2013]

Additional Information

Gene ID	8976
Other Names	N-WASP; NWASP; WASPB; WASL_HUMAN; WASL; Neural Wiskott-Aldrich syndrome protein (N-WASP); WASP like actin nucleation promoting factor; Wiskott-Aldrich syndrome-like; Wiskott-Aldrich syndrome like; WASL | N-WASP (phospho-Y256); p-N-WASP; phospho-N-WASP; p-WASL; WASL | N-WASP (phospho-Tyr256)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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: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}

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