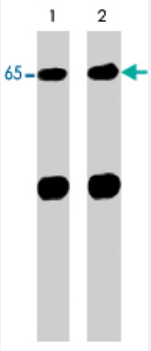
WASL polyclonal antibody

Catalog # PAB7887 Size 100 uL

Applications



Western Blot (Tissue lysate)

Western blot analysis of control (lane 1) and alkaline phosphatase-treated (AP) (lane 2) neonatal rat brain lysate (20 ug/lane). Blots were probed with WASL polyclonal antibody (Cat # PAB7887).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of WASL.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human WASL.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This N-WASP peptide sequence is 100% homologous to rat and mouse N-WASP, and has low hom ology to the corresponding region in the human WASP.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:2000) Western Blot (1:500) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 1 mg/mL BSA, 0.05% sodium azide)

Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — WASL

Entrez GeneID	8976
Gene Name	WASL
Gene Alias	DKFZp779G0847, MGC48327, N-WASP, NWASP
Gene Description	Wiskott-Aldrich syndrome-like
Omim ID	605056
Gene Ontology	Hyperlink
Gene Summary	The Wiskott-Aldrich syndrome (WAS) family of proteins share similar domain structure, and are in volved in transduction of signals from receptors on the cell surface to the actin cytoskeleton. The p resence of a number of different motifs suggests that they are regulated by a number of different s timuli, and interact with multiple proteins. Recent studies have demonstrated that these proteins, d irectly or indirectly, associate with the small GTPase, Cdc42, known to regulate formation of actin filaments, and the cytoskeletal organizing complex, Arp2/3. The WASL gene product is a homolo g of WAS protein, however, unlike the latter, it is ubiquitously expressed and shows highest expre ssion in neural tissues. It has been shown to bind Cdc42 directly, and induce formation of long acti n microspikes. [provided by RefSeq
Other Designations	Wiskott-Aldrich syndrome gene-like|Wiskott-Aldrich syndrome gene-like protein|neural Wiskott-Al drich syndrome protein

Publication Reference

- Phosphorylation of the WASP-VCA domain increases its affinity for the Arp2/3 complex and enhances actin polymerization by WASP.

  Cory GO, Cramer R, Blanchoin L, Ridley AJ.

  Molecular Cell 2003 May; 11(5):1229.

  Application: WB, Human, Monkey, COS-7, Jurkat, Raji, U-937 cells

- Regulation of actin filament network formation through ARP2/3 complex: activation by a diverse array of proteins.

  Higgs HN, Pollard TD.

  Annual Review of Biochemistry 2001 Jan; 70:649.

  Application: IHC, WB-Tr, Human, Monkey, Cancers, COS-7 cells, Mammalian cells

Pathway

- Adherens junction
- Chemokine signaling pathway
- Fc gamma R-mediated phagocytosis
- Pathogenic Escherichia coli infection - EHEC
- Regulation of actin cytoskeleton