

Rabbit anti-Human, Mouse WAVE1 Polyclonal Antibody | anti-WAVE1 antibody

WAVE1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322651	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

WAVE1; Polyclonal Antibody; WAVE1 Antibody; WASP family; verprolin homology domain-containing protein 1; WASP family member 1; FLJ31482; homology of dictyostelium scar 1; KIAA0269; Protein WAVE-1; Protein WAVE1; scar; Dictyostelium; homology of; 1; SCAR1; Similar to a plant extensin like protein; Verprolin homology domain containing protein 1; Verprolin homology domain-containing protein 1; WAS protein family; member 1; Wasf1; WASF1_HUMAN; WASL; WASP family 1; WASP family protein member 1; verprolin homology domain-containing protein; WAVE; Wiskott Aldrich syndrome protein family member 1; Wiskott-Aldrich syndrome protein family member 1; anti-WAVE1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	WAVE1 antibody detects endogenous levels of total WAVE1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	559
Applicable Applications for anti-WAVE1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human WAVE1
Subcellular Location	Cytoplasm > Cytoskeleton. Dot-like pattern in the cytoplasm. Concentrated in Rac-regulated membrane-ruffling areas.
Tissue Specificity	Highly expressed in brain. Lowly expressed in testis, ovary, colon, kidney, pancreas, thymus, small intestine and peripheral blood.
Predicted Cross Reactivity	Pig, Bovine, Horse, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Rabbit (100%), Dog (100%), Chicken (86%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA322651 staining NIH-3T3 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of WAVE1 using 293 whole cell lysates



IHC (Immunohistochemistry)

AAA322651 at 1/100 staining Mouse colon tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-WAVE1 antibody

Function: Downstream effector molecule involved in the transmission of signals from tyrosine kinase receptors and small GTPases to the actin cytoskeleton. Promotes formation of actin filaments. Part of the WAVE complex that regulates lamellipodia formation. The WAVE complex regulates actin filament reorganization via its interaction with the Arp2/3 complex (By similarity). As component of the WAVE1 complex, required for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes (By similarity).

Subunit Structure: Component of the WAVE1 complex composed of ABI2, CYFIP1 or CYFIP2, BRK1, NCKAP1 and WASF1/WAVE1. Within the complex, a heterodimer containing NCKAP1 and CYFIP1 interacts with a heterotrimer formed by WAVE1, ABI2 and BRK1. CYFIP2 binds to activated RAC1 which causes the complex to dissociate, releasing activated WASF1. The complex can also be activated by NCK1. Binds actin and the Arp2/3 complex. Interacts with BAIAP2. Interacts with SHANK3; the interaction mediates the association of SHANK3 with the WAVE1 complex. Interacts with ABI1 (via N-terminus). Interacts with SORBS2; this interaction greatly enhances phosphorylation by ABL1 and dephosphorylation by PTPN12 and might mediate partial to focal adhesion sites.

Post-translational Modifications: Phosphorylated on tyrosine residues by ABL1 and dephosphorylated by PTPN12.

Similarity: Binds the Arp2/3 complex through the C-terminal region and actin through verprolin homology (VPH) domain. Belongs to the SCAR/WAVE family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	68161500
NCBI GeneID	8936
NCBI Accession #	NP_001020105.1
NCBI GenBank Nucleotide #	NM_001024934.1
UniProt Accession #	Q92558; Q5SZK7; E1P5F2
Molecular Weight	Observed: 70 kDa Predicted: 62 kDa
NCBI Official Full Name	wiskott-Aldrich syndrome protein family member 1
NCBI Official Synonym Full Names	WAS protein family member 1
NCBI Official Symbol	WASF1
NCBI Official Synonym Symbols	WAVE; SCAR1; WAVE1
NCBI Protein Information	wiskott-Aldrich syndrome protein family member 1

UniProt Protein Name	Wiskott-Aldrich syndrome protein family member 1
UniProt Gene Name	WASF1
UniProt Synonym Gene Names	KIAA0269; SCAR1; WAVE1; WASP family protein member 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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