

Anti-WASF1 Antibody

Rabbit polyclonal antibody to WASF1 Catalog # AP60651

Specification

Anti-WASF1 Antibody - Product Information

Application
Primary Accession
Other Accession

Reactivity Human, Mouse, Rat, Bovine

WB, IF/IC, IHC

Q92558 Q8R5H6

Host Rabbit
Clonality Polyclonal
Calculated MW 61652

Anti-WASF1 Antibody - Additional Information

Gene ID 8936

Other Names

KIAA0269; SCAR1; WAVE1; Wiskott-Aldrich syndrome protein family member 1; WASP family protein member 1; Protein WAVE-1; Verprolin homology domain-containing protein 1

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human WASF1. The exact sequence is proprietary.

Dilution

WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500) IF/IC~~N/A IHC~~1:100~500

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C.Stable for 12 months from date of receipt

Anti-WASF1 Antibody - Protein Information

Name WASF1 (HGNC:12732)

Synonyms KIAA0269, SCAR1, WAVE1

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 (PubMed:<a



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href="http://www.uniprot.org/citations/29961568" target="_blank">29961568). 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). Also involved in the regulation of mitochondrial dynamics (PubMed:29961568).

Cellular Location

Cytoplasm, cytoskeleton. Synapse {ECO:0000250|UniProtKB:Q5BJU7} Cell junction, focal adhesion. Note=Dot- like pattern in the cytoplasm. Concentrated in Rac-regulated membrane-ruffling areas (PubMed:9889097). Partial translocation to focal adhesion sites might be mediated by interaction with SORBS2 (PubMed:18559503). In neurons, colocalizes with activated NTRK2 after BDNF addition in endocytic sites through the association with TMEM108 (By similarity). {ECO:0000250|UniProtKB:Q8R5H6, ECO:0000269|PubMed:18559503, ECO:0000269|PubMed:9889097}

Tissue Location

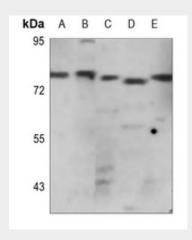
Highly expressed in brain. Lowly expressed in testis, ovary, colon, kidney, pancreas, thymus, small intestine and peripheral blood

Anti-WASF1 Antibody - Protocols

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

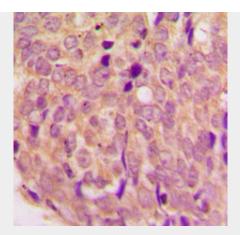
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-WASF1 Antibody - Images

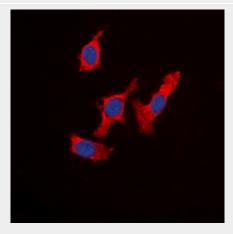


Western blot analysis of WASF1 expression in HEK293T (A), H1792 (B), mouse spleen (C), rat muscle (D), rat spleen (E) whole cell lysates.





Immunohistochemical analysis of WASF1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of WASF1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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