10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

WASF1 / WAVE Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3075a

Specification

WASF1 / WAVE Antibody (internal region) - Product Information

Application	**E**
Primary Accession	Q92558
Other Accession	NP_003922.1, 8936, 83767 (mouse), 294568 (rat)
Predicted	**Human, Mouse, Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**61652**

WASF1 / WAVE Antibody (internal region) - Additional Information

Gene ID 8936

Other Names
Wiskott-Aldrich syndrome protein family member 1, WASP family protein member 1, Protein WAVE-1, Verprolin homology domain-containing protein 1, WASF1, KIAA0269, SCAR1, WAVE1

Dilution
E~~N/A

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
WASF1 / WAVE Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

WASF1 / WAVE Antibody (internal region) - 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: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

WASF1 / WAVE Antibody (internal region) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

WASF1 / WAVE Antibody (internal region) - Images

WASF1 / WAVE Antibody (internal region) - Background

Reported variants represent identical protein: NP_001020106.1, NP_003922.1, NP_001020107.1, NP_001020105.1

WASF1 / WAVE Antibody (internal region) - References

WAVE and Arp2/3 jointly inhibit filopodium formation by entering into a complex with mDia2. Beli P, Mascheroni D, Xu D, Innocenti M. Nature cell biology 2008 Jul 10 (7): 849-57. PMID: 18516090