

**WASF1 Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP14110c****Specification**

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**WASF1 Antibody (Center) Blocking peptide - Product Information**Primary Accession [Q92558](#)**WASF1 Antibody (Center) Blocking peptide - 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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP14110c was selected from the Center region of WASF1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**WASF1 Antibody (Center) Blocking peptide - 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 href="http://www.uniprot.org/citations/29961568" target="\_blank">29961568</a>). 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:<a href="http://www.uniprot.org/citations/29961568" target="\_blank">29961568</a>).

**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 Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**WASF1 Antibody (Center) Blocking peptide - Images****WASF1 Antibody (Center) Blocking peptide - Background**

The protein encoded by this gene, a member of the Wiskott-Aldrich syndrome protein (WASP)-family, plays a critical role downstream of Rac, a Rho-family small GTPase, in regulating the actin cytoskeleton required for membrane ruffling. It has been shown to associate with an actin nucleation core Arp2/3 complex while enhancing actin polymerization in vitro. Wiskott-Aldrich syndrome is a disease of the immune system, likely due to defects in regulation of actin cytoskeleton. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene.

**WASF1 Antibody (Center) Blocking peptide - References**

Namekata, K., et al. Proc. Natl. Acad. Sci. U.S.A. 107(16):7586-7591(2010) Roignot, J., et al. Cancer Lett. 288(1):116-123(2010) Kang, R., et al. Leukemia 24(1):177-186(2010) Takata, K., et al. Am. J. Pathol. 175(1):17-24(2009) He, Y.L., et al. Zhongguo Dang Dai Er Ke Za Zhi 11(2):88-92(2009)