

## Product datasheet for **AP06594PU-M**

### WAVE 1 (WASF1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunofluorescence:</b> 1/50-1/200. <b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 88-132 of Human WAVE1.
Specificity:	This antibody detects endogenous levels of WAVE1 protein. (region surrounding Ile119)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 15 mM sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 65 kDa
Gene Name:	WAS protein family member 1
Database Link:	<a href="#">Entrez Gene 8936 Human Q92558</a>

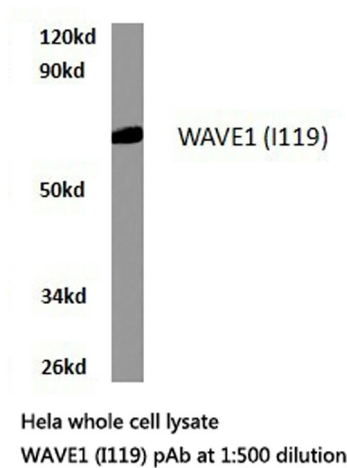
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**Background:**

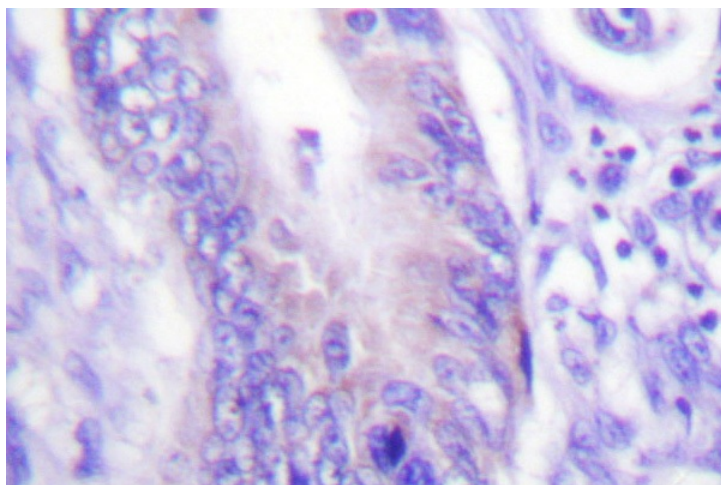
WASP (for Wiskott-Aldrich syndrome protein) and N-WASP are downstream effectors of Cdc42 that are implicated in actin polymerization and cytoskeletal organization. The WASP family also includes VASP (vasodilator-stimulated phosphoprotein) and Mena (for mammalian enabled protein), which accumulate at focal adhesions and are also involved in the regulation of the actin cytoskeleton. The WAVE proteins are related to the WASP family proteins and are likewise involved in mediating actin reorganization downstream of the Rho family of small GTPases. The two protein homologs WAVE1 and WAVE2 specifically regulate membrane ruffling by inducing the formation of actin filament clusters in response to GTP binding and activating Rac. The WAVE proteins mediate this actin polymerization by cooperating with the Arp2/3 complex, a nucleation core, and thereby promoting the formation of actin filaments. WAVE1, which is also designated SCAR (for suppressor of cAR), is expressed primarily in the brain, while WAVE2 is widely expressed with the expression highest in peripheral blood leukocytes.

**Synonyms:**

Wiskott-Aldrich syndrome protein family member 1, WAVE-1, KIAA0269, SCAR1

**Product images:**


Western blot (WB) analysis of WAVE1 antibody in extracts from hela cells.



Immunohistochemistry (IHC) analyzes of WAVE1 antibody in paraffin-embedded human colon carcinoma brain tissue.