

# **Human/Mouse WASF1/WAVE1 Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5514

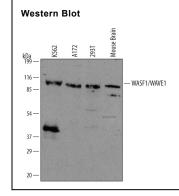
DESCRIPTION			
Species Reactivity	Human/Mouse		
Specificity	Detects endogenous human and mouse WASF1/WAVE1 in Western blots.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human WASF1/WAVE1 Met1-Tyr250 Accession # Q92558		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

#### DATA



Detection of Human/Mouse WASF1/WAVE1 by Western Blot, Western blot shows lysates of K562 human chronic myelogenous leukemia cell line, A172 human glioblastoma cell line, and 293T human embryonic kidney cell line, and mouse brain tissue. PVDF membrane was probed with 1 µg/mL of Human/Mouse WASF1/WAVE1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5514) followed by HRPconjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for WASF1/WAVE1 at approximately 90 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

# PREPARATION AND STORAGE

**Reconstitution** Reconstitute at 0.2 mg/mL in sterile PBS

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

## Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

### BACKGROUND

WASF1/WAVE1 (Wiscott-Aldrich syndrome protein family Verprolin-homologous protein 1) is an 80-85 kDa member of the SCAR/WAVE family of proteins. It is expressed in diverse cell types such as neurons, fibroblasts, macrophages, platelets, oligodendroglia and breast epithelium. WASF1/WAVE1 is normally inactive, being phosphorylated at Ser310 and complexed with HSPC300, PIR121 and Nap125. Upon activation, it is dephosphorylated and decoupled, heterodimerizes with WASP, and initiates actin polymerization. Human WASF1/WAVE1 is 559 amino acids (aa) in length. It contains five sequential poly-Pro regions (aa 278-435) and one VPH domain (aa 497-514) that binds to actin and Arp2/3. There is one isoform that shows a 23 aa N-terminal extension. In mouse, a 60 kDa proteolytic cleavage form is reported. Over aa 1-250, human WASF1/WAVE1 shares 99% aa identity with mouse WASF1/WAVE1.

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