

DESCRIPTION

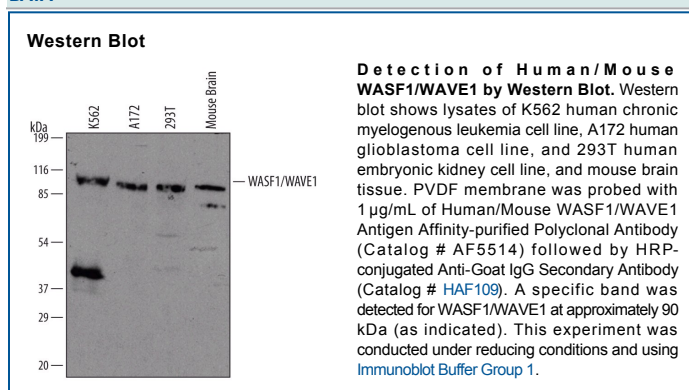
Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse WASF1/WAVE1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human WASF1/WAVE1 Met1-Tyr250 Accession # Q92558
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

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



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.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month from date of receipt, 2 to 8 °C, reconstituted. ● 6 months from date of receipt, -20 to -70 °C, reconstituted.

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.