

## DESCRIPTION

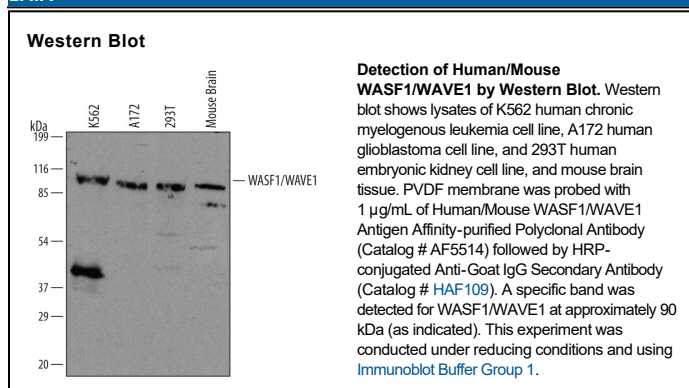
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects endogenous human and mouse WASF1/WAVE1 in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human WASF1/WAVE1 Met1-Tyr250 Accession # Q92558
<b>Formulation</b>	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
<b>Western Blot</b>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.