Human/Mouse WASF3/WAVE3 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5515

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects endogenous human/mouse WASF3/WAVE3 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human WASF3/WAVE3 Met1-Lys180 Accession # Q9UPY6
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

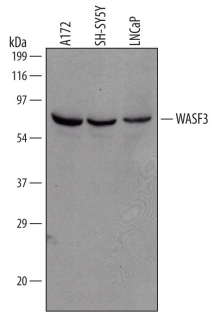
APPLICATIONS

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

Western Blot



Detection of Human WASF3/WAVE3 by Western Blot. Western blot shows lysates of A172 human glioblastoma cell line, SH-SY5Y human neuroblastoma cell line, and LNCaP human prostate cancer cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse WASF3/WAVE3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5515) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for WASF3/WAVE3 at approximately 70 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.
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 from date of receipt, 2 to 8 °C, reconstituted. ● 6 months from date of receipt, -20 to -70 °C, reconstituted.

BACKGROUND

WASF3/WAVE3 (Wiscott-Aldrich syndrome protein family Verprolin-homologous protein 3) is a 70 kDa member of the SCAR/WAVE family of proteins. It is expressed in select diverse cell types such as neurons, platelets, and breast epithelium. Upon activation, WASF3/WAVE3 is phosphorylated on Tyr151/248/337/486 and, in complex with HSPC300, initiates actin polymerization. WASF3/WAVE3 also regulates MMP expression. Human WASF3/WAVE3 is 502 amino acids (aa) in length. It contains one coiled-coil region (aa 57-93), three sequential poly-Pro regions (aa 304-410) and one VPH domain (aa 440-457) that binds to actin and Arp2/3. There is one isoform that shows a 36 aa substitution for aa 181-239. Over aa 1-180, human WASF3 shares 98% aa identity with mouse WASF3.