

Product Name: WAVE1 (phospho Tyr125) Rabbit Polyclonal Antibody
Catalog #: APRab05629

Summary

Production Name	WAVE1 (phospho Tyr125) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	WASF1 WASF1; KIAA0269; SCAR1; WAVE1; Wiskott-Aldrich syndrome protein family member 1
Alternative Names	1; WASP family protein member 1; Protein WAVE-1; Verprolin homology domain-containing protein 1
Gene ID	8936.0
SwissProt ID	Q92558.The antiserum was produced against synthesized peptide derived from human WAVE1 around the phosphorylation site of Tyr125. AA range:91-140

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. . ELISA: 1:5000. Not yet tested in other
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applications.

Molecular Weight 70kD

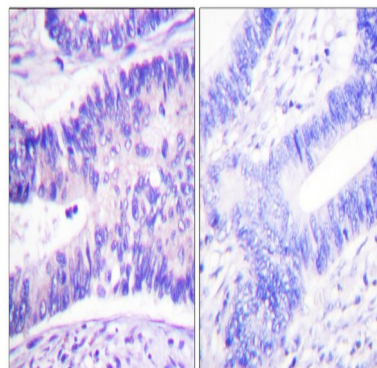
Background

The protein encoded by this gene, a member of the Wiskott-Aldrich syndrome protein (WASP)-family, plays a critical role downstream of Rac, a Rho-family small GTPase, in regulating the actin cytoskeleton required for membrane ruffling. It has been shown to associate with an actin nucleation core Arp2/3 complex while enhancing actin polymerization in vitro. Wiskott-Aldrich syndrome is a disease of the immune system, likely due to defects in regulation of actin cytoskeleton. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008],domain: Binds the Arp2/3 complex through the C-terminal region and actin through verprolin homology (VPH) domain.,function: Downstream effector molecules involved in the transmission of signals from tyrosine kinase receptors and small GTPases to the actin cytoskeleton.,similarity: Belongs to the SCAR/WAVE family.,similarity: Contains 1 WH2 domain.,subcellular location: Dot-like pattern in the cytoplasm. Concentrated in Rac-regulated membrane-ruffling areas.,subunit: Component of the WAVE1 complex composed of ABI2, CYFIP2, C3orf10/HSPC300, NCKAP1 and WASF1/WAVE1. CYFIP2 binds to activated RAC1 which causes the complex to dissociate, releasing activated WASF1. The complex can also be activated by NCK1 (By similarity). Binds actin and the Arp2/3 complex. Interacts with BAIAP2.,tissue specificity: Highly expressed in brain. Lowly expressed in testis, ovary, colon, kidney, pancreas, thymus, small intestine and peripheral blood.,

Research Area

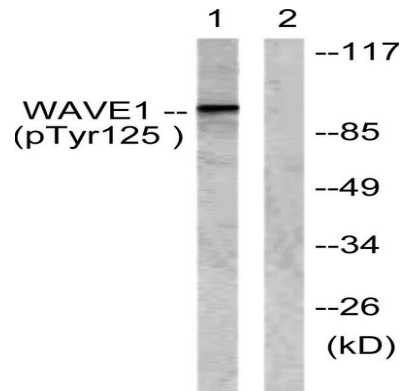
Adherens_Junction;Fc gamma R-mediated phagocytosis;Regulates Actin and Cytoskeleton;

Image Data

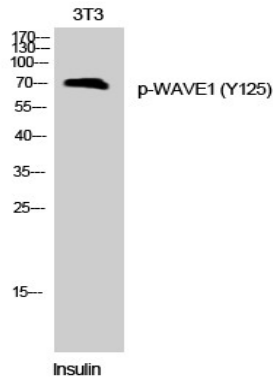


Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using WAVE1 (Phospho-Tyr125) Antibody. The picture on the right is blocked with the phospho peptide.

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Western blot analysis of lysates from NIH/3T3 cells treated with Insulin 0.01U/ml 15', using WAVE1 (Phospho-Tyr125) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of 3T3 cells using Phospho-WAVE1 (Y125) Polyclonal Antibody

Note

For research use only.