

**WAVE1 (phospho Tyr125) Polyclonal Antibody**

<b>Catalog No :</b>	YP0680
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	WAVE1
<b>Fields :</b>	>>Adherens junction;>>Fc gamma R-mediated phagocytosis;>>Regulation of actin cytoskeleton;>>Bacterial invasion of epithelial cells;>>Pathogenic Escherichia coli infection;>>Shigellosis;>>Choline metabolism in cancer
<b>Gene Name :</b>	WASF1
<b>Protein Name :</b>	Wiskott-Aldrich syndrome protein family member 1
<b>Human Gene Id :</b>	8936
<b>Human Swiss Prot No :</b>	Q92558
<b>Mouse Gene Id :</b>	83767
<b>Mouse Swiss Prot No :</b>	Q8R5H6
<b>Rat Gene Id :</b>	294568
<b>Rat Swiss Prot No :</b>	Q5BJU7
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human WAVE1 around the phosphorylation site of Tyr125. AA range:91-140
<b>Specificity :</b>	Phospho-WAVE1 (Y125) Polyclonal Antibody detects endogenous levels of WAVE1 protein only when phosphorylated at Y125.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

**Dilution :** WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.

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**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 70kD

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**Cell Pathway :** Adherens\_Junction;Fc gamma R-mediated phagocytosis;Regulates Actin and Cytoskeleton;

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**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],

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**Function :** 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 in

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**Subcellular Location :** Cytoplasm, cytoskeleton . Cell junction, synapse . Cell junction, focal adhesion . Dot-like pattern in the cytoplasm. Concentrated in Rac-regulated membrane-ruffling areas (PubMed:9889097). Partial translocation to focal adhesion sites might be mediated by interaction with SORBS2 (PubMed:18559503). In neurons, colocalizes with activated NTRK2 after BDNF addition in endocytic sites through the association with TMEM108 (By similarity) .

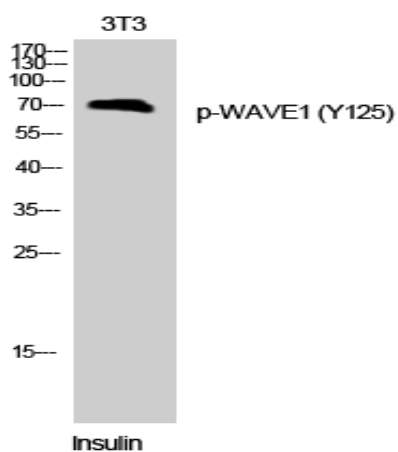
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**Expression :** Highly expressed in brain. Lowly expressed in testis, ovary, colon, kidney, pancreas, thymus, small intestine and peripheral blood.

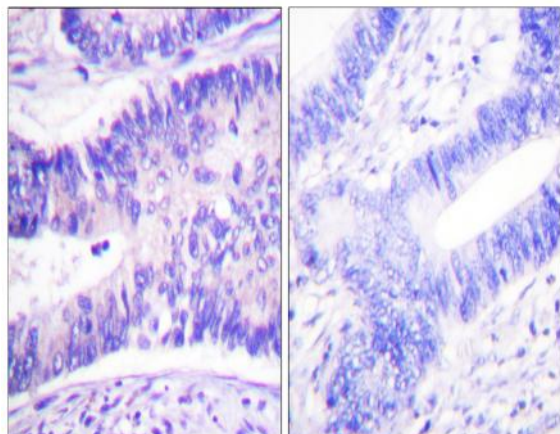
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<b>Tag :</b>	<u>orthogonal</u>
<b>Sort :</b>	<u>24245</u>
<b>No4 :</b>	<u>1</u>
<b>Host :</b>	<u>Rabbit</u>
<b>Modifications :</b>	<u>Phospho</u>

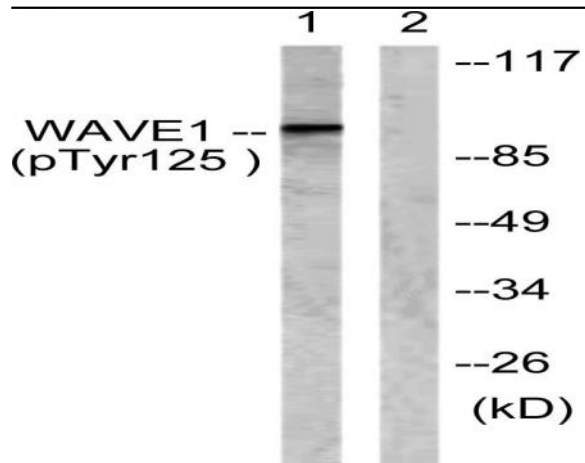
## Products Images



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



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



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.