

WAVE1 Polyclonal Antibody

Catalog No: YT4897

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: WAVE1

Fields: >>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

Gene Name: WASF1

Protein Name: Wiskott-Aldrich syndrome protein family member 1

Q92558

Q8R5H6

Human Gene Id: 8936

Human Swiss Prot

No:

Mouse Gene Id: 83767

Mouse Swiss Prot

No:

Rat Gene Id: 294568

Rat Swiss Prot No: Q5BJU7

Immunogen : The antiserum was produced against synthesized peptide derived from human

WAVE1. AA range:91-140

Specificity: WAVE1 Polyclonal Antibody detects endogenous levels of WAVE1 protein.

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution : WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not

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yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

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

Observed Band: 70kD

Cell Pathway: Adherens Junction; Fc gamma R-mediated phagocytosis; Regulates Actin and

Cytoskeleton;

The protein encoded by this gene, a member of the Wiskott-Aldrich syndrome **Background:**

> protein (WASP)-family, plays a critical role downstream of Rac, a Rho-family small GTPase, in regulating the actin cytoskeleton reguired 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],

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: Dotlike 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

Subcellular Location:

Cytoplasm, cytoskeleton. Cell junction, synapse. Cell junction, focal adhesion. Dot-like pattern in the cytoplasm. Concentrated in Rac-regulated membraneruffling 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)...

Highly expressed in brain. Lowly expressed in testis, ovary, colon, kidney, **Expression:**

pancreas, thymus, small intestine and peripheral blood.

orthogonal



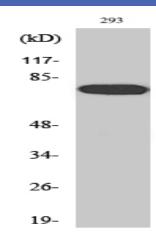
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No4: 1

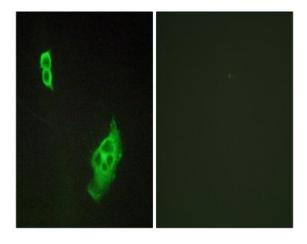
Host: Rabbit

Modifications: Unmodified

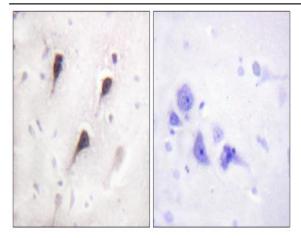
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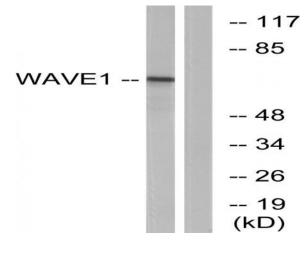
Western Blot analysis of various cells using WAVE1 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunofluorescence analysis of COS7 cells, using WAVE1 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using WAVE1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, treated with insulin 0.01U/ml 15', using WAVE1 Antibody. The lane on the right is blocked with the synthesized peptide.