Rabbit N WASP/WASL Polyclonal Antibody | anti-WASL antibody

Anti-N WASP/WASL Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125749	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Flow Cytometry, Functional Assay, Western Blot**

PRODUCT SYNONYMS

N WASP/WASL; Polyclonal Antibody; Anti-N WASP/WASL Antibody; Wasl; Neural Wiskott-Aldrich syndrome protein; N-WASP; WASP like actin nucleation promoting factor; anti-WASL antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for N WASP/WASL detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-WASL antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human N WASP/WASL recombinant protein (Position: Q5-H211).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES

FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HELA cells using anti-N WASP/WASL antibody (AAA125749).Overlay histogram showing HELA cells stained with AAA125749 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-N WASP/WASL Antibody (AAA125749, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

WB (Western Blot)

Figure 1. Western blot analysis of N WASP/WASL using anti-N WASP/WASL antibody (AAA125749).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human SH-SY5Y whole cell lysatesLane 2: human U87 whole cell lysatesLane 3: human HELA whole cell lysatesLane 4: human CACO-2 whole cell lysatesLane 5: rat brain tissue lysatesLane 6: rat lung tissue lysatesLane 7: rat liver tissue lysatesLane 8: rat C6 whole cell lysatesLane 9: mouse brain tissue lysayesLane 10: mouse lung tissue lysatesLane 11: mouse liver tissue lysatesLane 12: mouse Neuro-2a whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-N WASP/WASL antigen affinity purified polyclonal antibody (Catalog # AAA125749) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for N WASP/WASL at approximately 70KD. The expected band size for N WASP/WASL is at 70KD.

ADDITIONAL INFORMATION

Related Product Information for anti-WASL antibody	Neural Wiskott-Aldrich syndrome protein is a protein that in humans is encoded by the WASL gene. This gene encodes a member of the Wiskott-Aldrich syndrome (WAS) protein family. Wiskott-Aldrich syndrome proteins share similar domain structure, and associate with a variety of signaling molecules to alter the actin cytoskeleton. The encoded protein is highly expressed in neural tissues, and interacts with several proteins involved in cytoskeletal organization, including cell division control protein 42 (CDC42) and the actin-related protein-2/3 (ARP2/3) complex. The encoded protein may be involved in the formation of long actin microspikes, and in neurite extension.
References	1. Cotta-de-Almeida, V., Westerberg, L., Maillard, M. H., Onaldi, D., Wachtel, H., Meelu, P., Chung, U., Xavier, R., Alt, F. W., Snapper, S. B. Wiskott-Aldrich syndrome protein (WASP) and N-WASP are critical for T cell development. Proc. Nat. Acad. Sci. 104: 15424-15429, 2007. 2. Fukuoka, M., Miki, H., Takenawa, T. Identification of N-WASP homologs in human and rat brain. Gene 196: 43-48, 1997. 3. Guenin-Mace, L., Veyron-Churlet, R., Thoulouze, M. -I., Romet-Lemonne, G., Hong, H., Leadlay, P. F., Danckaert, A., Ruf, M. -T., Mostowy, S., Zurzolo, C., Bousso, P., Chretien, F., Carlier, M. -F., Demangel, C. Mycolactone activation of Wiskott-Aldrich syndrome proteins underpins Buruli ulcer formation. J. Clin. Invest. 123: 1501-1512, 2013.

NCBI AND UNIPROT INFORMATION

NCBI GI #	51702526
NCBI GeneID	8976
NCBI Accession #	NP_003932.3
NCBI GenBank Nucleotide #	NM_003941.3
UniProt Accession #	O00401; Q7Z746
Molecular Weight	505
NCBI Official Full Name	neural Wiskott-Aldrich syndrome protein
NCBI Official Synonym Full Names	Wiskott-Aldrich syndrome-like
NCBI Official Symbol	WASL
NCBI Official Synonym Symbols	NWASP; N-WASP
NCBI Protein Information	neural Wiskott-Aldrich syndrome protein

UniProt Protein Name	Neural Wiskott-Aldrich syndrome protein
UniProt Gene Name	**WASL**
UniProt Synonym Gene Names	N-WASP
UniProt Entry Name	WASL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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