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Anti-WASP Picoband Antibody

Catalog # ABO12148

Product Information

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	P42768
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Wiskott-Aldrich syndrome protein(WAS) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	7454
Other Names	Wiskott-Aldrich syndrome protein, WASp, WAS, IMD2
Calculated MW	52913
Application Details	Immunocytochemistry , 0.5-1 □g/ml, Human, - Immunohistochemistry(Frozen Section), 0.5-1 □g/ml, Human, - Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, By Heat Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm, cytoskeleton.
Tissue Specificity	Expressed predominantly in the thymus. Also found, to a much lesser extent, in the spleen. .
Source	Eukaryota
Protein Name	Wiskott-Aldrich syndrome protein
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human WASP (129-156aa ADEDEAQAFRALVQEKIQKRNQRQSGDR), different from the related mouse sequence by two amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Contains 1 CRIB domain.

Protein Information

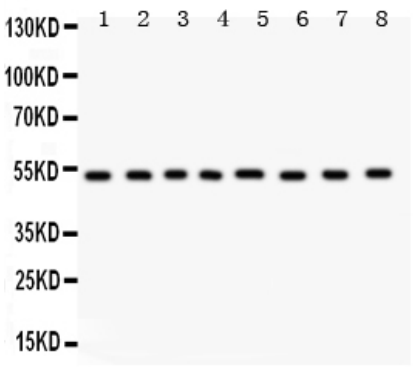
Name	WAS
Synonyms	IMD2
Function	Effector protein for Rho-type GTPases that regulates actin filament reorganization via its interaction with the Arp2/3 complex (PubMed:12235133, PubMed:12769847, PubMed:16275905). Important for efficient actin polymerization (PubMed:12235133, PubMed:16275905, PubMed:8625410). Possible regulator of lymphocyte and platelet function (PubMed:9405671). Mediates actin filament reorganization and the formation of actin pedestals upon infection by pathogenic bacteria (PubMed:18650809). In addition to its role in the cytoplasmic cytoskeleton, also promotes actin polymerization in the nucleus, thereby regulating gene transcription and repair of damaged DNA (PubMed:20574068). Promotes homologous recombination (HR) repair in response to DNA damage by promoting nuclear actin polymerization, leading to drive motility of double-strand breaks (DSBs) (PubMed:29925947).
Cellular Location	Cytoplasm, cytoskeleton. Nucleus
Tissue Location	Expressed predominantly in the thymus. Also found, to a much lesser extent, in the spleen.

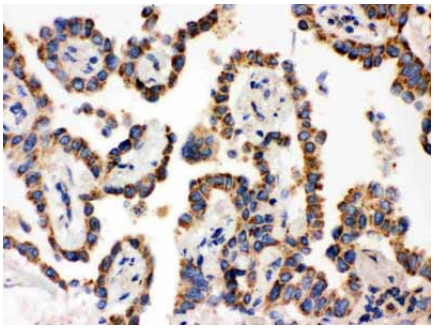
Background

The Wiskott-Aldrich syndrome (WAS) family of proteins share similar domain structure, and are involved in transduction of signals from receptors on the cell surface to the actin cytoskeleton. The presence of a number of different motifs suggests that they are regulated by a number of different stimuli, and interact with multiple proteins. Recent studies have demonstrated that these proteins, directly or indirectly, associate with the small GTPase, Cdc42, known to regulate formation of actin filaments, and the cytoskeletal organizing complex, Arp2/3. Wiskott-Aldrich syndrome is a rare, inherited, X-linked, recessive disease characterized by immune dysregulation and microthrombocytopenia, and is caused by mutations in the WAS gene. The WAS gene product is a cytoplasmic protein, expressed exclusively in hematopoietic cells, which show signalling and cytoskeletal abnormalities in WAS patients. A transcript variant arising as a result of alternative promoter usage, and containing a different 5' UTR sequence, has been described, however, its full-length nature is not known.

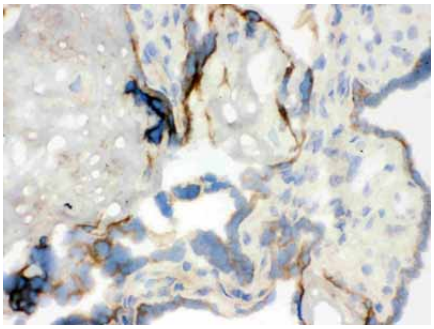
Images

Anti- WASP Picoband antibody, ABO12148, Western blottingAll lanes: Anti WASP (ABO12148) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Human Placenta Tissue Lysate at 50ugLane 3: Rat Spleen Tissue Lysate at 50ugLane 4: Rat Pancreas Tissue Lysate at 50ugLane 5: HEPG2 Whole Cell Lysate at 40ugLane 6: HELA Whole Cell Lysate at 40ugLane 7: HEPA Whole Cell Lysate at 40ugLane 8: 22RV1 Whole Cell Lysate at 40ugPredicted bind size: 53KDObserved bind size: 53KD

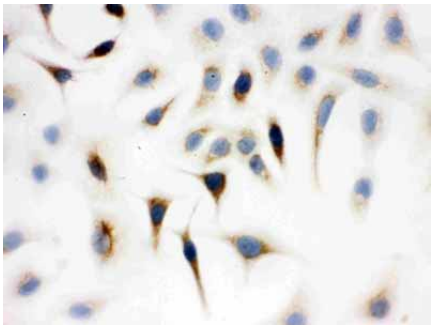




Anti- WASP Picoband antibody, ABO12148, IHC(P)IHC(P): Human Lung Cancer Tissue



Anti- WASP Picoband antibody, ABO12148, IHC(F)IHC(F): Human Placenta Tissue



Anti- WASP Picoband antibody, ABO12148, ICCICC: A549 Cell

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