

Anti-WASP Picoband Antibody
Catalog # ABO12148**Specification**

Anti-WASP Picoband Antibody - 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.

Anti-WASP Picoband Antibody - Additional Information

Gene ID 7454

Other Names

Wiskott-Aldrich syndrome protein, WASp, WAS, IMD2

Calculated MW

52913 MW KDa

Application Details

Immunocytochemistry , 0.5-1 µg/ml, Human, -
Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Human, -
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat
Western blot, 0.1-0.5 µg/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. .

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 ADEDEAQA^FRALVQE^KIQKR^NQRQSGDR), 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 reconstitution, 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.

Anti-WASP Picoband Antibody - 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](http://www.uniprot.org/citations/12235133), PubMed: [12769847](http://www.uniprot.org/citations/12769847), PubMed: [16275905](http://www.uniprot.org/citations/16275905)). Important for efficient actin polymerization (PubMed: [12235133](http://www.uniprot.org/citations/12235133), PubMed: [16275905](http://www.uniprot.org/citations/16275905), PubMed: [8625410](http://www.uniprot.org/citations/8625410), PubMed: [9405671](http://www.uniprot.org/citations/9405671)). Possible regulator of lymphocyte and platelet function (PubMed: [18650809](http://www.uniprot.org/citations/18650809)). Mediates actin filament reorganization and the formation of actin pedestals upon infection by pathogenic bacteria (PubMed: [18650809](http://www.uniprot.org/citations/18650809), PubMed: [20574068](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/29925947)).

Cellular Location

Cytoplasm, cytoskeleton. Nucleus

Tissue Location

Expressed predominantly in the thymus. Also found, to a much lesser extent, in the spleen.

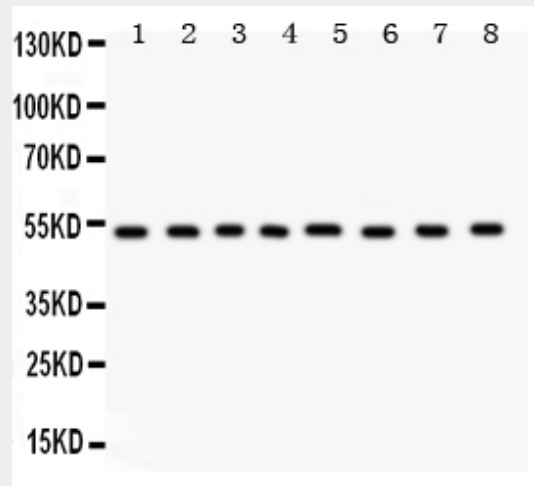
Anti-WASP Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

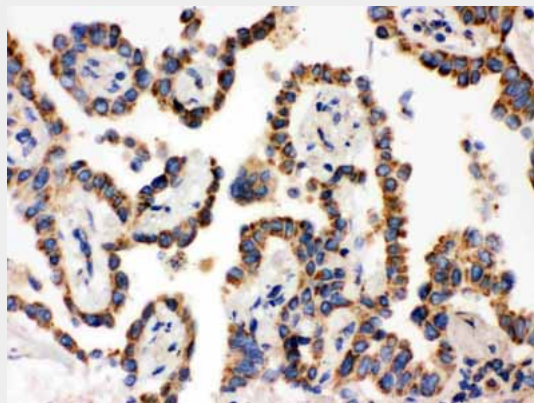
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

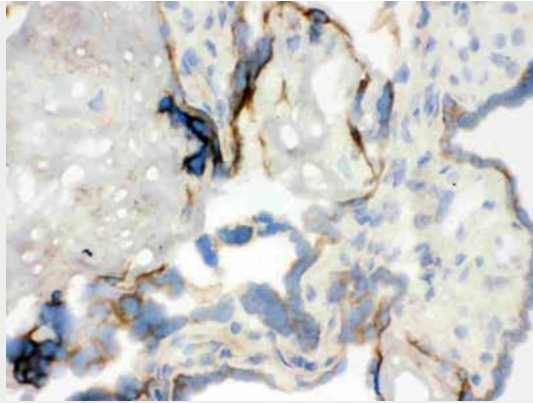
Anti-WASP Picoband Antibody - Images



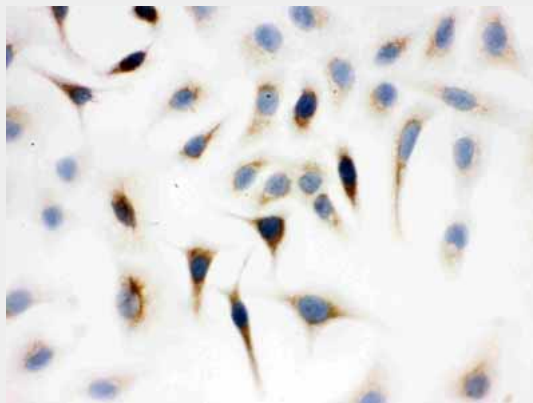
Anti- WASP Picoband antibody, ABO12148, Western blotting All lanes: Anti WASP (ABO12148) at 0.5ug/ml
Lane 1: Rat Liver Tissue Lysate at 50ug
Lane 2: Human Placenta Tissue Lysate at 50ug
Lane 3: Rat Spleen Tissue Lysate at 50ug
Lane 4: Rat Pancreas Tissue Lysate at 50ug
Lane 5: HEPG2 Whole Cell Lysate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

Anti-WASP Picoband Antibody - 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.