

WAS Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9873c**Specification**

WAS Antibody (Center) - Product Information

| | |
|-------------------|------------------------|
| Application | FC, IHC-P, WB,E |
| Primary Accession | P42768 |
| Reactivity | Human, Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 52913 |
| Antigen Region | 116-144 |

WAS Antibody (Center) - Additional Information**Gene ID** 7454**Other Names**

Wiskott-Aldrich syndrome protein, WASp, WAS, IMD2

Target/Specificity

This WAS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 116-144 amino acids from the Central region of human WAS.

Dilution

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

WAS Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

WAS Antibody (Center) - 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

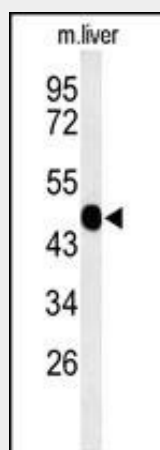
Expressed predominantly in the thymus. Also found, to a much lesser extent, in the spleen.

WAS Antibody (Center) - Protocols

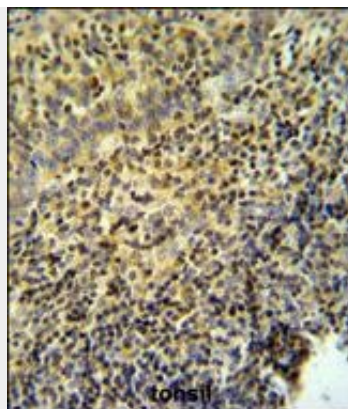
Provided below are standard protocols that you may find useful for product applications.

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

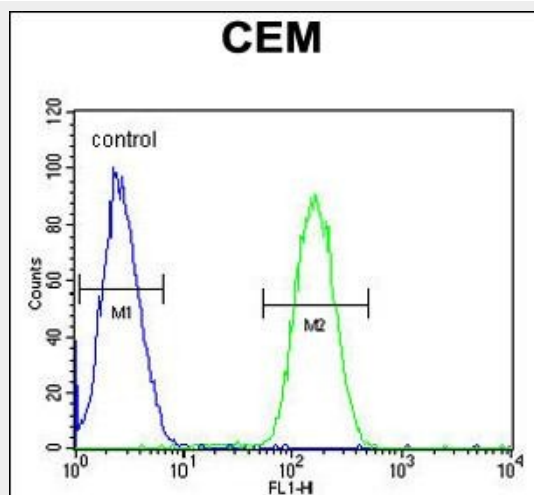
WAS Antibody (Center) - Images



Western blot analysis of WAS Antibody (Center) (Cat. #AP9873c) in mouse liver tissue lysates (35ug/lane). WAS (arrow) was detected using the purified Pab.



WAS Antibody (Center) (Cat. #AP9873c) IHC analysis in formalin fixed and paraffin embedded tonsil tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the WAS Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WAS Antibody (Center) (Cat. #AP9873c) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

WAS Antibody (Center) - 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.

WAS Antibody (Center) - References

- Rajmohan, R., et al. FEMS Yeast Res. 9(8):1226-1235(2009)
- Dovas, A., et al. J. Cell. Sci. 122 (PT 21), 3873-3882 (2009)
- Cammer, M., et al. J. Biol. Chem. 284(35):23302-23311(2009)

Zhang, J., et al. J. Biol. Chem. 284(32):21659-21669(2009)
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