

# WASP Polyclonal Antibody

Catalog # AP73079

## Product Information

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Application	WB, IHC-P
Primary Accession	<a href="#">P42768</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52913

## Additional Information

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Gene ID	7454
Other Names	WAS; IMD2; Wiskott-Aldrich syndrome protein; WASp
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications. IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

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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: <a href="#">12235133</a> , PubMed: <a href="#">12769847</a> , PubMed: <a href="#">16275905</a> ). Important for efficient actin polymerization (PubMed: <a href="#">12235133</a> , PubMed: <a href="#">16275905</a> , PubMed: <a href="#">8625410</a> ). Possible regulator of lymphocyte and platelet function (PubMed: <a href="#">9405671</a> ). Mediates actin filament reorganization and the formation of actin pedestals upon infection by pathogenic bacteria (PubMed: <a href="#">18650809</a> ). 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: <a href="#">20574068</a> ). 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: <a href="#">29925947</a> ).
Cellular Location	Cytoplasm, cytoskeleton. Nucleus
Tissue Location	Expressed predominantly in the thymus. Also found, to a much lesser extent,

in the spleen.

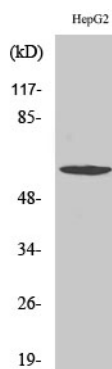
## Background

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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:[8625410](#), PubMed:[12235133](#), PubMed:[16275905](#)). 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](#)).

## Images

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Western Blot analysis of various cells using WASP Polyclonal Antibody. Secondary antibody was diluted at 1:20000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.