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Anti-WASP (pY290) Antibody

Rabbit polyclonal antibody to WASP (pY290)
Catalog # AP60526

Specification

Anti-WASP (pY290) Antibody - Product Information

Application	**WB, FC, IF/IC, IHC**
Primary Accession	P42768
Other Accession	P70315
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**52913**

Anti-WASP (pY290) Antibody - Additional Information

Gene ID 7454

Other Names
IMD2; Wiskott-Aldrich syndrome protein; WASp

Target/Specificity
Recognizes endogenous levels of WASP (pY290) protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/100 - 1/200), IF/IC (1/100 - 1/500), FC (1/100 - 1/200)
FC~~1:10~50
IF/IC~~N/A
IHC~~1:100~500

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-WASP (pY290) 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, PubMed:12769847, PubMed:<a

href="http://www.uniprot.org/citations/16275905" target="_blank">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

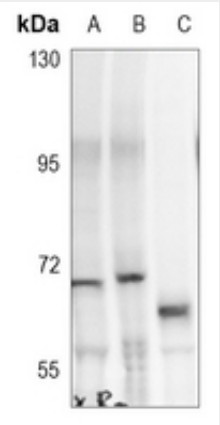
Tissue Location
Expressed predominantly in the thymus. Also found, to a much lesser extent, in the spleen.

Anti-WASP (pY290) 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 Cytomety
- Cell Culture

Anti-WASP (pY290) Antibody - Images



Western blot analysis of WASP (pY290) expression in Jurkat (A), SHSY5Y (B), mouse spleen (C) whole cell lysates.

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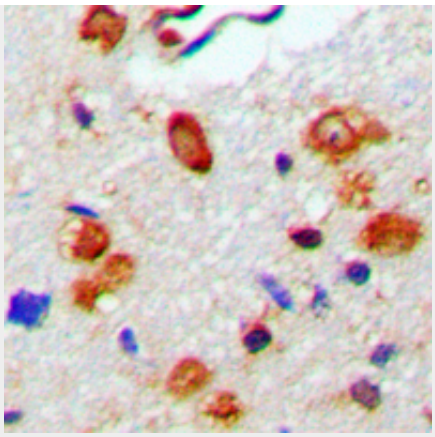
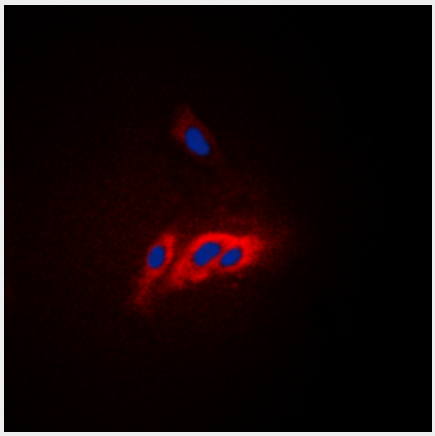


Immunohistochemical analysis of WASP (pY290) staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of WASP (pY290) staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Anti-WASP (pY290) Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human WASP (pY290). The exact sequence is proprietary.