

**Anti-WASP (pY290) Antibody**  
**Rabbit polyclonal antibody to WASP (pY290)**  
**Catalog # AP60526****Specification**

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**Anti-WASP (pY290) Antibody - Product Information**

Application	WB, FC, IF/IC, IHC
Primary Accession	<a href="#">P42768</a>
Other Accession	<a href="#">P70315</a>
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**

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

**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:&lt;a href="http://www.uniprot.org/citations/12235133" target="\_blank"&gt;12235133&lt;/a&gt;, PubMed:&lt;a

href="http://www.uniprot.org/citations/12769847" target="\_blank">12769847</a>, PubMed:<a href="http://www.uniprot.org/citations/16275905" target="\_blank">16275905</a>). Important for efficient actin polymerization (PubMed:<a href="http://www.uniprot.org/citations/12235133" target="\_blank">12235133</a>, PubMed:<a href="http://www.uniprot.org/citations/16275905" target="\_blank">16275905</a>, PubMed:<a href="http://www.uniprot.org/citations/8625410" target="\_blank">8625410</a>). Possible regulator of lymphocyte and platelet function (PubMed:<a href="http://www.uniprot.org/citations/9405671" target="\_blank">9405671</a>). Mediates actin filament reorganization and the formation of actin pedestals upon infection by pathogenic bacteria (PubMed:<a href="http://www.uniprot.org/citations/18650809" target="\_blank">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="http://www.uniprot.org/citations/20574068" target="\_blank">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="http://www.uniprot.org/citations/29925947" target="\_blank">29925947</a>).

### Cellular Location

Cytoplasm, cytoskeleton. Nucleus

### Tissue Location

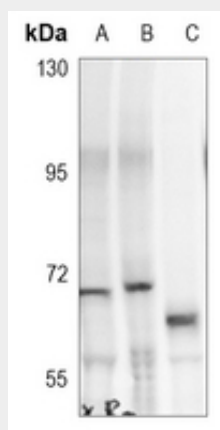
Expressed predominantly in the thymus. Also found, to a much lesser extent, in the spleen.

## Anti-WASP (pY290) Antibody - Protocols

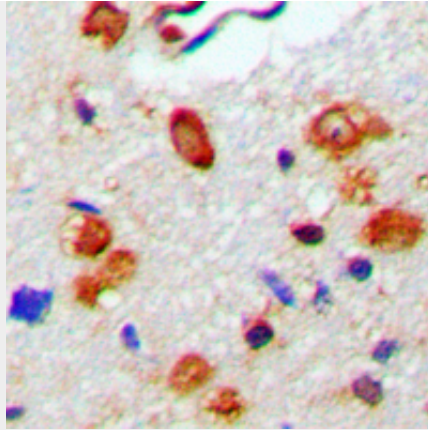
Provided below are standard protocols that you may find useful for product applications.

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

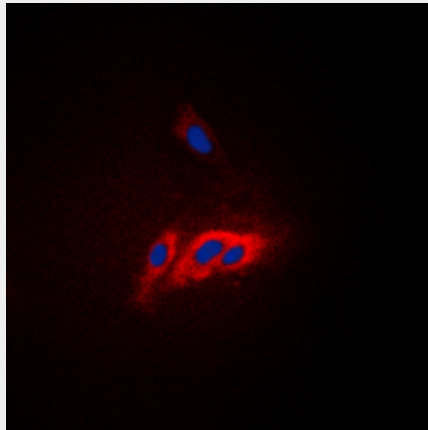
## Anti-WASP (pY290) Antibody - Images



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



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 humidified 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**

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