

## Anti-MPHOSPH9 Antibody Picoband®

Catalog Number: A11350-2

### About MPHOSPH9

MPHOSPH9, also known as M-phase phosphoprotein 9, has 2 isoforms, a 1,031 amino acid isoform 1 that is 116 kDa and a 1,028 amino acid isoform 2 that is 116 kDa, localizes to the distal and proximal end of centriole pairs in duplicated centrosomes, and in ciliated cells, localizes to the distal and proximal end of daughter centriole and proximal of the mother centriole but not in the distal end of the mother centriole. Little is known about its function. Studies on this protein have shown a relationship with the following diseases and disorders: corneal ulcer, rosacea, multiple sclerosis, Fanconi's anemia, anemia, and neuronitis. This protein has also shown an interaction with YWHAG, USP11, SVIL, YWHAZ, WNK1, and UBC in M phase of mitotic cell cycle pathways.

### Overview

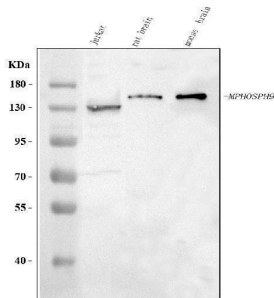
Product Name	Anti-MPHOSPH9 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-MPHOSPH9 Antibody Picoband® catalog # A11350-2. Tested in ELISA, IF, ICC, WB, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, Flow Cytometry, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	A0A815IG87

### Technical Details

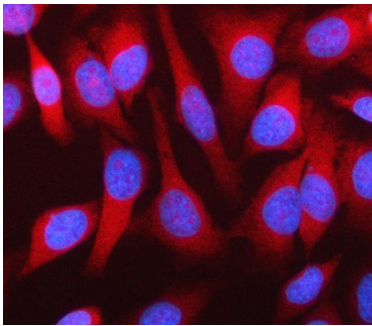
Immunogen	E.coli-derived human MPHOSPH9 recombinant protein (Position: S49-Q1059).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug/1x10 <sup>6</sup> cells, Human ELISA, 0.1-0.5 ug/ml, -

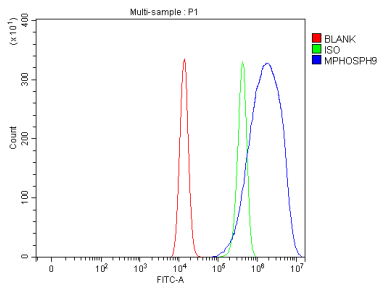
## Anti-MPHOSPH9 Antibody Picoband® (A11350-2) Images



Western blot analysis of MPHOSPH9 using anti-MPHOSPH9 antibody (A11350-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Jurkat whole cell lysates, Lane 2: rat brain tissue lysates, Lane 3: mouse brain tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MPHOSPH9 antigen affinity purified polyclonal antibody (Catalog # A11350-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for MPHOSPH9 at approximately 130-140 kDa. The expected band size for MPHOSPH9 is at 130-140 kDa.



IF analysis of MPHOSPH9 using anti-MPHOSPH9 antibody (A11350-2). MPHOSPH9 was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-MPHOSPH9 Antibody (A11350-2) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of HEL cells using anti-MPHOSPH9 antibody (A11350-2). Overlay histogram showing HEL cells stained with A11350-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MPHOSPH9 Antibody (A11350-2, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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### Anti-MPHOSPH9 Antibody

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