

Rabbit anti-Human MPP1 Polyclonal Antibody | anti-MPP1 antibody

MPP1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322557	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

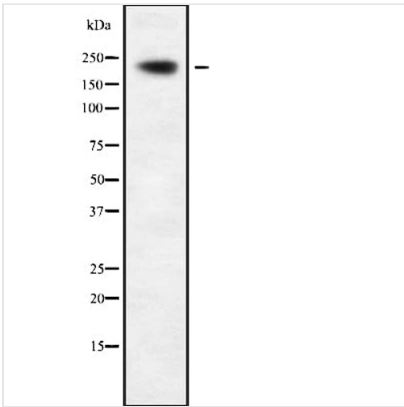
PRODUCT SYNONYMS

MPP1; Polyclonal Antibody; MPP1 Antibody; Cancer/testis antigen 90; CT90; KI20B_HUMAN; KIF20B; Kinesin-like protein KIF20B; Kinesin-related motor interacting with PIN1; KRMP1; M-phase phosphoprotein 1; MPHOSPH1; MPP 1; Mpp1; anti-MPP1 antibody

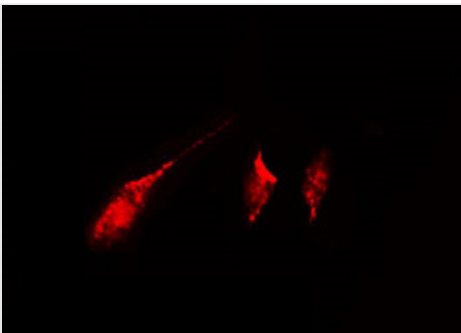
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	MPP1 antibody detects endogenous levels of total MPP1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1820
Applicable Applications for anti-MPP1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MPP1
Subcellular Location	Cytoplasm. Nucleus. Cytoplasm > Cytoskeleton > Spindle. Localizes mainly in the nucleus during interphase although it is also detected in the cytoplasm without clear association with microtubules. A 2-3 fold expression increase is seen as cells progress from G1 to G2/M phase. During prophase and metaphase it is found throughout the cytoplasm and at anaphase accumulates at the midplan of the cell and forms a distinct band extending across the spindle midzone. At anaphase it is concentrated in the mid-body.
Tissue Specificity	Brain, ovary, kidney and testis (at protein level) (PubMed:12740395). Overexpressed in bladder cancer cells (at protein level) (PubMed:17409436). Expressed in testis. Overexpressed in bladder cancer cells (PubMed:17409436).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (92%), Horse (100%), Sheep (92%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of MPP1 using RAW264.7 whole cell lysates



IF (Immunofluorescence)
AAA322557 staining A549 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MPP1 antibody	Function: Plus-end-directed motor enzyme that is required for completion of cytokinesis (PubMed:11470801, PubMed:12740395). Required for proper midbody organization and abscission in polarized cortical stem cells. Plays a role in the regulation of neuronal polarization by mediating the transport of specific cargos. Participates in the mobilization of SHTN1 and in the accumulation of PIP3 in the growth cone of primary hippocampal neurons in a tubulin and actin-dependent manner. In the developing telencephalon, cooperates with SHTN1 to promote both the transition from the multipolar to the bipolar stage and the radial migration of cortical neurons from the ventricular zone toward the superficial layer of the neocortex. Involved in cerebral cortex growth (By similarity). Acts as an oncogene for promoting bladder cancer cells proliferation, apoptosis inhibition and carcinogenic progression (PubMed:17409436). Subunit Structure: Oligomerizes (via kinesin motor domain) (PubMed:11470801). Associates with microtubules (PubMed:12740395). Interacts (via C-terminal globular tail region) with PIN1 (via WW domain) (PubMed:11470801). Interacts with PRC1 (PubMed:17409436). Interacts with SHTN1 (via N-terminus); the interaction is direct and promotes the association of SHTN1 to microtubules in primary neurons. Post-translational Modifications: Phosphorylated during mitosis by CDK1 (PubMed:11470801, PubMed:12740395). Similarity: Belongs to the TRAFAC class myosin-kinesin ATPase superfamily. Kinesin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	546231677
NCBI GeneID	9585
NCBI Accession #	NP_001271188.1
NCBI GenBank Nucleotide #	NM_001284259.1
UniProt Accession #	Q96Q89; O43277; Q09471; Q2KQ73; Q32NE1; Q561V3; Q58EX8; Q5T9M8; Q5T9M9; Q5T9N0; Q5T9N1; A8MXM7
Molecular Weight	Observed: 210 kDa Predicted: 211 kDa
NCBI Official Full Name	kinesin-like protein KIF20B isoform 1
NCBI Official Synonym Full Names	kinesin family member 20B
NCBI Official Symbol	KIF20B
NCBI Official Synonym Symbols	CT90; MPP1; KRMP1; MPP-1; MPHOSPH1
NCBI Protein Information	kinesin-like protein KIF20B
UniProt Protein Name	Kinesin-like protein KIF20B

UniProt Gene Name	KIF20B
UniProt Synonym Gene Names	KRMP11 PublicationManual assertion based on opinion iniRef.1; MPP11 PublicationManual assertion based on opinion iniRef.5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mpp1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/322557>