

ARG59030 anti-MPP1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MPP1
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Hm
Tested Application	FACS, ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MPP1
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 409-450 of Human MPP1 (TEALQQLQKDSEAIRSQYAHYFDLSLVNNGVDETLKKLQEAF).
Conjugation	Un-conjugated
Alternate Names	AAG12; PEMP; DXS552E; EMP55; Membrane protein, palmitoylated 1; p55; MRG1; 55 kDa erythrocyte membrane protein

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	WB	0.1 - 0.5 µg/ml
	Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

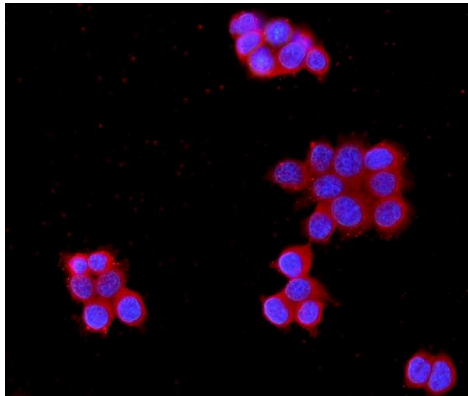
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	MPP1
Gene Full Name	membrane protein, palmitoylated 1, 55kDa
Background	This gene encodes the prototype of the membrane-associated guanylate kinase (MAGUK) family proteins. MAGUKs interact with the cytoskeleton and regulate cell proliferation, signaling pathways, and intercellular junctions. The encoded protein is an extensively palmitoylated membrane phosphoprotein containing a PDZ domain, a Src homology 3 (SH3) motif, and a guanylate kinase domain. This gene product interacts with various cytoskeletal proteins and cell junctional proteins in different tissue and cell types, and may be involved in the regulation of cell shape, hair cell development, neural patterning of the retina, and apico-basal polarity and tumor suppression pathways in non-erythroid cells. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]
Function	Essential regulator of neutrophil polarity. Regulates neutrophil polarization by regulating AKT1 phosphorylation through a mechanism that is independent of PIK3CG activity (By similarity). [UniProt]
Calculated Mw	52 kDa
PTM	Extensively palmitoylated by ZDHHC17, palmitoylation is essential for membrane organization and is crucial for proper erythrocytes morphology. [UniProt]
Cellular Localization	Membrane; Lipid-anchor. Cell projection, stereocilium. Colocalizes with WHRN at stereocilium tip during hair cell development (By similarity). Colocalizes with MPP5 in the retina, at the outer limiting membrane (OLM). Colocalizes with WHRN in the retina, at the outer limiting membrane (OLM), outer plexiform layer (OPL), basal bodies and at the connecting cilium (CC). Colocalizes with NF2 in non-myelin-forming Schwann cells. [UniProt]

Images



ARG59030 anti-MPP1 antibody ICC/IF image

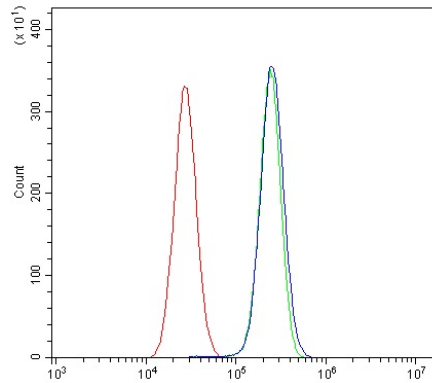
Immunofluorescence: MCF-7 cells were blocked with 10% goat serum and then stained with ARG59030 anti-MPP1 antibody (red) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.

ARG59030 anti-MPP1 antibody WB image



Western blot: Rat lung, Mouse spleen and MCF-7 lysates stained with ARG59030 anti-MPP1 antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).

ARG59030 anti-MPP1 antibody FACS image



Flow Cytometry: U87 cells were blocked with 10% normal goat serum and then stained with ARG59030 anti-MPP1 antibody (blue) at 1 $\mu\text{g}/10^6$ cells for 30 min at 20°C, followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 $\mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.