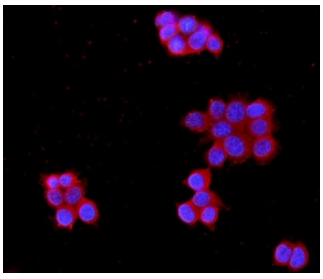
MPP1 Antibody / Membrane Palmitoylated Protein 1 (R32546)

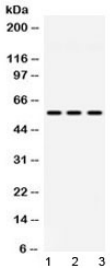
Catalog No.	Formulation	Size
R32546	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q00013
Localization	Cytoplasmic
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence (FFPE) : 2-4ug/ml
Limitations	This MPP1 antibody is available for research use only.



Immunofluorescent staining of FFPE human MCF7 cells with MPP1 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) rat lung, 2) mouse spleen and 3) human MCF7 lysate with MPP1 antibody at 0.5ug/ml. Predicted/observed molecular weight 52-55 kDa.

Description

Membrane Palmitoylated Protein 1, also called '55 kDa erythrocyte membrane protein,' is a protein that in humans is encoded by the MPP1 gene. 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.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the MPP1 antibody to be titrated for optimal performance.

Immunogen

Amino acids 409-450 (TEALQQLQKDSEAIRSQYAHYFDLSLVNNGVDETLKKLQEAF) from the human protein were used as the immunogen for the MPP1 antibody.

Storage

After reconstitution, the MPP1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.