

Anti-MPP1 Picoband Antibody

Catalog # ABO11696

Product Information

Application	WB
Primary Accession	Q00013
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for 55 kDa erythrocyte membrane protein(MPP1) detection. Tested with WB in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	4354
Other Names	55 kDa erythrocyte membrane protein, p55, Membrane protein, palmitoylated 1, MPP1, DXS552E, EMP55
Calculated MW	52296
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Subcellular 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. .
Tissue Specificity	Ubiquitous. .
Source	Eukaryota
Protein Name	55 kDa erythrocyte membrane protein
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MPP1 (409-450aa TEALQQLQKDSEAIRSQYAHYFDLSLVNNGVDETLKKLQEAF), different from the related mouse sequence by one amino acid.
Purification	Immunogen affinity purified.

Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After r ° Constitution, at 4 °C for one month. It ° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

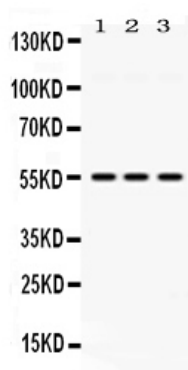
Protein Information

Name	MPP1
Synonyms	DXS552E, EMP55
Function	Essential regulator of neutrophil polarity. Regulates neutrophil polarization by regulating AKT1 phosphorylation through a mechanism that is independent of PIK3CG activity (By similarity).
Cellular Location	Cell membrane; Lipid-anchor. Cell projection, stereocilium {ECO:0000250 UniProtKB:P70290}. Note=Colocalizes with WHRN at stereocilium tip during hair cell development (By similarity) Colocalizes with PALS1 in the retina, at the outer limiting membrane (OLM) (By similarity). Colocalizes with WHRN in the retina, at the outer limiting membrane (OLM), outer plexiform layer (OPL), basal bodies and at the connecting cilium (CC) (By similarity). Colocalizes with NF2 in non-myelin-forming Schwann cells (PubMed:19144871) {ECO:0000250 UniProtKB:P70290, ECO:0000269 PubMed:19144871}
Tissue Location	Ubiquitous..

Background

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.

Images



Western blot analysis of MPP1 expression in rat lung extract (lane 1), mouse spleen extract (lane 2) and MCF-7 whole cell lysates (lane 3). MPP1 at 55KD was detected using rabbit anti- MPP1 Antigen Affinity purified polyclonal antibody (Catalog # ABO11696) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .

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