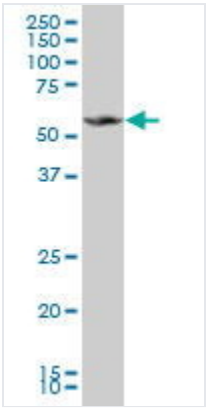
MPP1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	MPP1, Monoclonal Antibody
Full Product Name	MPP1 (Membrane Protein, Palmitoylated 1, 55kD, AAG12, DXS552, DXS552E, EMP55, MRG1, PEMP) (FITC)
Product Gene Name	anti-MPP1 antibody
Product Synonym Names	Membrane Protein; Palmitoylated 1; 55kD; AAG12; DXS552; DXS552E; EMP55; MRG1; PEMP
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	200000
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified
Specificity	Recognizes MPP1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	51kDa
OMIM	305360
3D Structure	ModBase 3D Structure for Q00013
Immunogen	MPP1 (NP_002427, 1aa-98aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MTLKASEGESGGSMHTALSDLYLEHLLQKRSRPEAVSHPLNTVTEDMYTNGSPAPGSPAQVKGQEVRKVRLIQFEKVTEEPMGITLKLNEKQSCTVAR
Conjugate	FITC
Product Categories/Family for anti-MPP1 antibody	Antibodies; Membrane Proteins
Applications Tested/Suitable for anti-MPP1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-MPP1 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-MPP1 antibody	Palmitoylated membrane protein 1 is the prototype of a family of membrane-associated proteins termed MAGUKs (membrane-associated guanylate kinase homologs). MAGUKs interact with the cytoskeleton and regulate cell proliferation, signaling pathways, and intracellular junctions. Palmitoylated membrane protein 1 contains a conserved sequence, called the SH3 (src homology 3) motif, found in several other proteins that associate with the cytoskeleton and are suspected to play important roles in signal transduction. [provided by RefSeq]
Other Notes	Small volumes of anti-MPP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MPP1 purchase	MBS6177339 is an antibody targeting MPP1. Also known as MPP1 (Membrane Protein, Palmitoylated 1, 55kD, AAG12, DXS552, DXS552E, EMP55, MRG1, PEMP) (FITC). Host: Mouse.



Western Blot (WB) of anti-MPP1 antibody
MPP1 monoclonal antibody (M03), clone 2E5. Western Blot analysis of MPP1 expression in K-562 (Cat # L009V1).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MPP1. It may not necessarily be applicable to this product.

NCBI GI #	4505237
NCBI GeneID	4354
NCBI Accession #	NP_002427
UniProt Primary Accession #	Q00013
UniProt Related Accession #	Q00013
GenBank Nucleotide #	NM_002436.4
NCBI Official Full Name	55 kDa erythrocyte membrane protein isoform 1
NCBI Official Synonym Full Names	membrane palmitoylated protein 1
NCBI Official Symbol	MPP1
NCBI Official Synonym Symbols	MRG1; PEMP; AAG12; EMP55; DXS552E
UniProt Protein Name	55 kDa erythrocyte membrane protein
UniProt Synonym Protein Names	Membrane protein, palmitoylated 1
Protein Family	55 kDa erythrocyte membrane protein
UniProt Gene Name	MPP1
UniProt Synonym Gene Names	DXS552E; EMP55; p55
UniProt Entry Name	EM55_HUMAN
NCBI Protein Information	55 kDa erythrocyte membrane protein

NCBI Summary for MPP1	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]
Research Articles on MPP1	**1.** Data suggest that targeting the ATP binding cassette subfamily C member 4 (ABCC4)-membrane palmitoylated protein 1 (MPP1) protein complex can lead to new therapies to improve treatment outcome of acute myeloid leukemia (AML).
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