

Recombinant Human MPP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MPP1-6433H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MPP1 MS Standard C13 and N15-labeled recombinant protein (NP_002427) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	52.3 kDa
AA Sequence	MTLKASEGESGGSMHTALSDLYLEHLLQKRSRPEAVSHPLNTVTEDMYTNNGSPAPG SPAQVKGQEVKRVRLIQFEKVTEEPMGITLKLNEKQSCTVARILHGGMIHRQGSLHV GDEILEINGTNTNHSVDQLQKAMKETKGMISLKVIPNQQSRLPALQMFMRAQFDYD

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PKKDNLIPCKEAGLKFATGDIIQIINKDDSNWWQGRVEGSSKESAGLIPSELQEWR
 VASMAQSAPSEAPSCSPFGKKKKYKDKYLAKHSSIFDQLDVVSYYEEVRLPAFKRKT
 LVLIGASGVGRSHIKNALLSQNPEKVVYPVYPTTRPPRKSEEDGKEYHFISTEEMTRN
 ISANEFLEFGSYQGNMFGTKFETVHQIHKQNKIAILDIEPQTLKIVRTAELSPFVFIAPT
 DQGTQTEALQQLQKDSEAIRSQYAHYFDLSLVNNGVDETLKKLQEAFDQACSSPQ
 WVPVSWVYTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [MPP1 membrane palmitoylated protein 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [MPP1](#)

Synonyms MPP1; membrane protein, palmitoylated 1, 55kDa; DXS552E, membrane protein, palmitoylated 1 (55kD); 55 kDa erythrocyte membrane protein; PEMP; p55; aging-associated gene 12; migration-related gene 1; erythrocyte membrane protein p55; palmitoylated erythrocyte membrane protein; MRG1; AAG12; EMP55; DXS552E;

Gene ID [4354](#)

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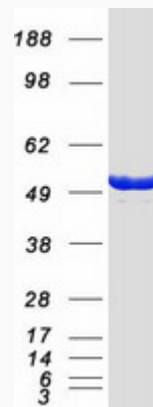
mRNA Refseq [NM_002436](#)

Protein Refseq [NP_002427](#)

MIM [305360](#)

UniProt ID [Q00013](#)

SDS-PAGE



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