# Recombinant Human 55 kDa erythrocyte membrane protein (MPP1)

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| **Product Code** | CSB-EP014758HU |
| **Storage** | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| **Uniprot No.** | Q00013 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | ≥85% (SDS-PAGE) |
| **Sequence** | MTLKASEGES GGSMHTALSD LYLEHLLQKR SRPEAVSHPL NTVTEDMYTN GSPAPGSPAQ VKGQEVRKVR LIQFEKVTEE PMGITLKLNE KQSCTVARIL HGGMIHRQGS LHVGDEILEI NGTNVTNHSV DQLQKAMKET KGMISLKVIP NQQSRLPALQ MFMRAQFDYD PKKDNLIPCK EAGLKFATGD IIQIINKDDS NWWQGRVEGS SKESAGLIPS PELQEWRVAS MAQSAPSEAP SCSPFGKKKK YKDKYLAKHS SIFDQLDVVS YEEVVRLPAF KRKTLVLIGA SGVGRSHIKN ALLSQNPEKF VYPVPYTTRP PRKSEEDGKE YHFISTEEMT RNISANEFLE FGSYQGNMFG TKFETVHQIH KQNKIAILDI EPQTLKIVRT AELSPFIVFI APTDQGTQTE ALQQLQKDSE AIRSQYAHYF DLSLVNNGVD ETLKKLQEAF DQACSSPQWV PVSWVY |
| **Source** | E.coli |
| **Target Names** | MPP1 |
| **Protein Names** | Recommended name: 55 kDa erythrocyte membrane protein Short name= p55 Alternative name(s): Membrane protein, palmitoylated 1 |
| **Expression Region** | 1-466 |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | Tag type will be determined during the manufacturing process. |
| **Protein Length** | Full length protein |
| **Target Details** | 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. |
| **Reconstitution** | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a |

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| | concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| **Shelf Life** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |