

Recombinant Mouse Mpp5 Protein, Myc/DDK-tagged

Cat. No. Mpp5-4126M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5) (Mpp5), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description

Plays a role in tight junction biogenesis and in the establishment of cell polarity in epithelial cells. Also involved in adherens junction biogenesis by ensuring correct localization of the exocyst complex protein EXOC4/SEC8 which allows trafficking of adherens junction structural component CDH1 to the cell surface. Plays a role through its interaction with CDH5 in vascular lumen formation and endothelial membrane polarity. Required during embryonic and postnatal retinal development. Required for the maintenance of cerebellar progenitor cells in an undifferentiated proliferative state, preventing premature differentiation, and is required for cerebellar histogenesis, fissure formation and cerebellar layer organization. Plays a role in the radial and longitudinal extension of the myelin sheath in Schwann cells. May modulate SC6A1/GAT1-mediated GABA uptake by stabilizing the transporter. May play a role in the T-cell receptor-mediated activation of NF-kappa-B. Required for localization of EZR to the apical membrane of parietal cells and may play a role in the dynamic remodeling of the apical cytoskeleton. Required for the normal polarized localization of the vesicular marker STX4. Required for the correct trafficking of the myelin proteins PMP22 and MAG. Involved in promoting phosphorylation and

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cytoplasmic retention of transcriptional coactivators YAP1 and WWTR1/TAZ which leads to suppression of TGFB1-dependent transcription of target genes such as CCN2/CTGF, SERPINE1/PAI1, SNAI1/SNAIL1 and SMAD7.

Molecular Mass 77.2 kDa

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

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Mpp5 membrane protein, palmitoylated 5 \(MAGUK p55 subfamily member 5\) \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Mpp5](#)

Synonyms MPP5; membrane protein, palmitoylated 5 (MAGUK p55 subfamily member 5); MAGUK p55 subfamily member 5; protein associated with Lin-7 1; membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 5); Pals1; AI255216; AI644496; 3830420B02Rik

Gene ID [56217](#)

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mRNA Refseq [NM_019579](#)

Protein Refseq [NP_062525](#)

UniProt ID [Q9JLB2](#)

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