Synaptic Systems

Rudolf-Wissell-Str. 28
37079 Göttingen, Germany
Phone: +49 551-50556-0
Fax: +49 551-50556-384
E-mail: sales@sysy.com
Web: www.sysy.com

MPP 4

Cat.No. 220 103; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	**WB**: 1 : 1000 (AP staining) **IP**: not tested yet **ICC**: not tested yet **IHC**: 1 : 5000 up to 1 : 20000 **IHC-P/FFPE**: not tested yet
Immunogen	Synthetic peptide corresponding to AA 197 to 216 from mouse MPP4 (UniProt Id: Q6P7F1)
Reactivity	Reacts with: rat (Q9QYH1), mouse (Q6P7F1). Other species not tested yet.
Specificity	Specific for MPP 4.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

The **m**embrane **p**almitoylated **p**rotein **4** (**MPP 4**), also referred to as **DLG 6**, belongs to the membrane associated guanylate kinase (MAGUK) protein family. It is scaffolding protein that is involved in connecting cilia and synaptic structures. It has been shown to interact with MPP 5 and Crb 1.

Selected General References

Proteomic analysis of the membrane palmitoylated protein-4 (MPP4)-associated protein complex in the retina.
Förster JR, Lochnit G, Stöhr H
Experimental eye research (2009) 88(1): 39-48.

Mpp4 recruits Psd95 and Veli3 towards the photoreceptor synapse.
Aartsen WM, Kantardzhieva A, Klooster J, van Rossum AG, van de Pavert SA, Versteeg I, Cardozo BN, Tonagel F, Beck SC, Tanimoto N, Seeliger MW, et al.
Human molecular genetics (2006) 15(8): 1291-302.

MPP5 recruits MPP4 to the CRB1 complex in photoreceptors.
Kantardzhieva A, Gosens I, Alexeeva S, Punte IM, Versteeg I, Krieger E, Neefjes-Mol CA, den Hollander AI, Letteboer SJ, Klooster J, Cremers FP, et al.
Investigative ophthalmology & visual science (2005) 46(6): 2192-201.

Cellular localization of the MPP4 protein in the mammalian retina.
Stöhr H, Stojic J, Weber BH
Investigative ophthalmology & visual science (2003) 44(12): 5067-74.

Developmental and tissue expression patterns of mouse Mpp4 gene.
Li M, Zhang SS, Barnstable CJ
Biochemical and biophysical research communications (2003) 307(2): 229-35.

Characterization of MPP4, a gene highly expressed in photoreceptor cells, and mutation analysis in retinitis pigmentosa.
Conte I, Lestingi M, den Hollander A, Miano MG, Alfano G, Circolo D, Pugliese M, Testa F, Simonelli F, Rinaldi E, Baiget M, et al.
Gene (2002) 297(1-2): 33-8.

Cloning and characterization of the human retina-specific gene MPP4, a novel member of the p55 subfamily of MAGUK proteins.
Stöhr H, Weber BH
Genomics (2001) 74(3): 377-84.