

GPM6A Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12829B

Product Information

Application	WB, IHC-P, E
Primary Accession	P51674
Other Accession	Q812E9 , P35802 , Q0VD07 , NP_005268.1 , NP_963886.1
Reactivity	Mouse, Rat, Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32534
Calculated MW	31210
Antigen Region	246-275

Additional Information

Gene ID	2823
Other Names	Neuronal membrane glycoprotein M6-a, M6a, GPM6A, M6A
Target/Specificity	This GPM6A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 246-275 amino acids from the C-terminal region of human GPM6A.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GPM6A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GPM6A
Synonyms	M6A
Function	Involved in neuronal differentiation, including differentiation and migration

of neuronal stem cells. Plays a role in neuronal plasticity and is involved in neurite and filopodia outgrowth, filopodia motility and probably synapse formation. GPM6A-induced filopodia formation involves mitogen-activated protein kinase (MAPK) and Src signaling pathways. May be involved in neuronal NGF-dependent Ca²⁺ influx. May be involved in regulation of endocytosis and intracellular trafficking of G protein-coupled receptors (GPCRs); enhances internalization and recycling of mu-type opioid receptor.

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P35802}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P35802}. Cell projection, axon {ECO:0000250|UniProtKB:P35802}. Cell projection, growth cone {ECO:0000250|UniProtKB:P35802}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q812E9}. Cell projection, filopodium {ECO:0000250|UniProtKB:Q812E9}. Cell projection, neuron projection {ECO:0000250|UniProtKB:Q812E9}. Note=Localizes to cholesterol-rich lipid rafts of the plasma membrane of hippocampal neurons. Localized to plasma membrane of cell bodies and neurites of hippocampal neurons Localized in membrane protrusions (filopodia and spines) of primary hippocampal neurons (By similarity). Localized to the growth cone edge membrane of elongating axons (By similarity) {ECO:0000250|UniProtKB:P35802, ECO:0000250|UniProtKB:Q812E9}

References

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Michibata, H., et al. Stem Cells Dev. 18(4):629-639(2009)
Boks, M.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (6), 707-711 (2008) :
Liang, Y.J., et al. Cell Res. 18(7):768-779(2008)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.