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GPM6A Rabbit pAb

Catalog # AP99842

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P51674
Other Accession	P51674
Reactivity	Rat, Human, Mouse
Predicted	Rabbit, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31210
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GPM6A
Epitope Specificity	151-250/278
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the myelin proteolipid protein family.
SUBUNIT	Interacts with OPRM1
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GPM6A (Glycoprotein M6A) is a Protein Coding gene. GO annotations related to this gene include calcium channel activity. An important paralog of this gene is GPM6B.

Additional Information

Gene ID	2823
Other Names	GPM6; M6A; GPM6A_HUMAN; GPM6A; GPM6A_MOUSE; glycoprotein M6A
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 g/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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 Ca(2+) 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}

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