

M6A Polyclonal Antibody

Catalog # AP73227

Product Information

Application WB Primary Accession P51674

Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Calculated MW 31210

Additional Information

Gene ID 2823

Other Names GPM6A; M6A; Neuronal membrane glycoprotein M6-a; M6a

Dilution WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other

applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°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

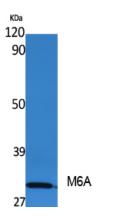
protein {ECO:0000250|UniProtKB:P35802}. Cell projection, axon {ECO:0000250|UniProtKB:P35802}. Cell projection, growth cone {ECO:0000250|UniProtKB:P35802}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q812E9}. Cell projection, filopodium {ECO:0000250|UniProtKB:Q812E9}. Cell projection, neuron 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}

Background

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.

Images



Western Blot analysis of extracts from rat stomach, using M6A Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

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