

# M6A Polyclonal Antibody

Catalog # AP73227

## Product Information

---

<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P51674</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	31210

## Additional Information

---

<b>Gene ID</b>	2823
<b>Other Names</b>	GPM6A; M6A; Neuronal membrane glycoprotein M6-a; M6a
<b>Dilution</b>	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications. E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

---

<b>Name</b>	GPM6A
<b>Synonyms</b>	M6A
<b>Function</b>	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.
<b>Cellular Location</b>	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}

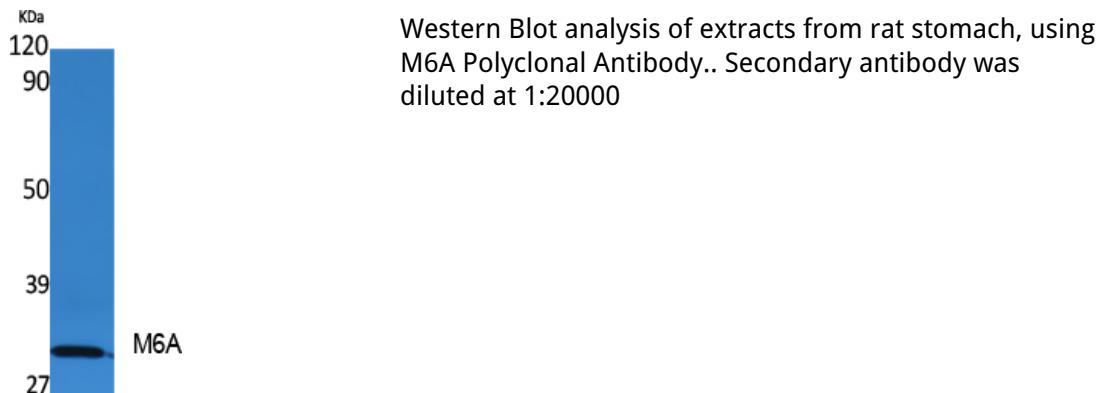
## Background

---

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

---



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