

**GPM6A Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12829b**

**Specification**

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**GPM6A Antibody (C-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P51674</a>
Other Accession	<a href="#">Q812E9</a> , <a href="#">P35802</a> , <a href="#">Q0VD07</a> , <a href="#">NP_005268.1</a> , <a href="#">NP_963886.1</a>
Reactivity	<b>Human</b>
Predicted	<b>Bovine, Mouse, Rat</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>31210</b>
Antigen Region	<b>246-275</b>

**GPM6A Antibody (C-term) - 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~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. 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.

**GPM6A Antibody (C-term) - 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

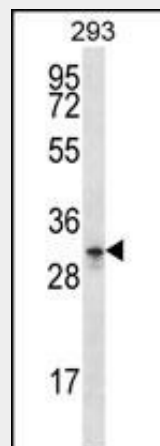
Cell membrane {ECO:0000250|UniProtKB:P35802}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P35802}. Cell projection, axon {ECO:0000250|UniProtKB:P35802}. Cell projection, growth cone {ECO:0000250|UniProtKB:P35802}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q812E9}. Cell projection, 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}

## GPM6A Antibody (C-term) - Protocols

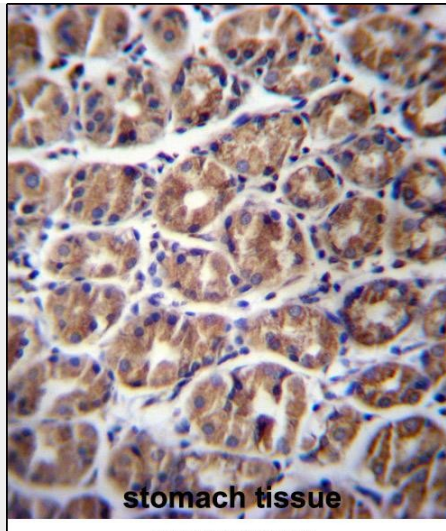
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## GPM6A Antibody (C-term) - Images



GPM6A Antibody (C-term) (Cat. #AP12829b) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the GPM6A antibody detected the GPM6A protein (arrow).



GPM6A Antibody (C-term) (Cat. #AP12829b) immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of GPM6A Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **GPM6A Antibody (C-term) - References**

- Morrison, A.C., et al. *Circ Cardiovasc Genet* 3(3):248-255(2010)  
Rose, J. Phd, et al. *Mol. Med.* (2010) In press :  
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)