

**GPM6A Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3404a

### Specification

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#### GPM6A Antibody (internal region) - Product Information

Application	<b>WB</b>
Primary Accession	<a href="#">P51674</a>
Other Accession	<a href="#">NP_005268.1</a> , <a href="#">NP_963885.1</a> , <a href="#">NP_963886.1</a> , <a href="#">2823</a> , <a href="#">234267 (mouse)</a> , <a href="#">306439 (rat)</a>
Reactivity	<b>Human, Mouse, Rat</b>
Predicted	<b>Dog</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>0.5 mg/ml</b>
Isotype	<b>IgG</b>
Calculated MW	<b>31210</b>

#### GPM6A Antibody (internal region) - Additional Information

**Gene ID** 2823

#### Other Names

Neuronal membrane glycoprotein M6-a, M6a, GPM6A, M6A

#### Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

GPM6A Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

#### GPM6A Antibody (internal region) - 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

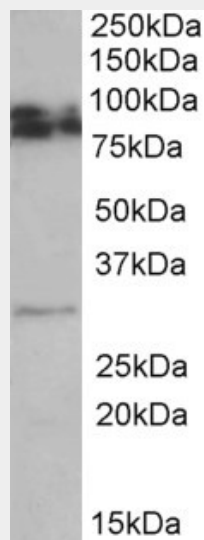
Cell membrane {ECO:0000250|UniProtKB:P35802}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P35802}. Cell projection, axon {ECO:0000250|UniProtKB:P35802}. Cell projection, growth cone {ECO:0000250|UniProtKB:P35802}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q812E9}. Cell projection,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



AF3404a (0.5 µg/ml) staining of Rat Brain lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### GPM6A Antibody (internal region) - Background

This antibody is expected to recognize all reported isoforms (NP\_005268.1; NP\_963885.1;

NP\_963886.1). Reported variants represent identical protein: NP\_963885.1, NP\_005268.1.

### **GPM6A Antibody (internal region) - References**

Genomic variation associated with mortality among adults of European and african ancestry with heart failure: the cohorts for heart and aging research in genomic epidemiology consortium. Morrison AC, Felix JF, Cupples LA, Glazer NL, Loehr LR, Dehghan A, Demissie S, Bis JC, Rosamond WD, Aulchenko YS, Wang YA, Haritunians T, Folsom AR, Rivadeneira F, Benjamin EJ, Lumley T, Couper D, Stricker BH, O'Donnell CJ, Rice KM, Chang PP, Hofman A, Le Circulation. Cardiovascular genetics 2010 Jun 3 (3): 248-55. PMID: 20400778