

**GDE1 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM8683b**

**Specification**

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**GDE1 Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9NZC3</a>
Reactivity	Human
Predicted	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1, $\kappa$
Calculated MW	37718

**GDE1 Antibody - Additional Information**

**Gene ID** 51573

**Other Names**

Glycerophosphodiester phosphodiesterase 1, 3.1.4.44, Membrane-interacting protein of RGS16, RGS16-interacting membrane protein, GDE1, MIR16

**Target/Specificity**

This GDE1 antibody is generated from a mouse immunized with a recombinant protein from the human region of human GDE1.

**Dilution**

WB~~1:2000

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

**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**

GDE1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**GDE1 Antibody - Protein Information**

**Name** GDE1 ([HGNC:29644](#))

**Function** Hydrolyzes the phosphodiester bond of glycerophosphodiesteres such as glycerophosphoinositol (GroPIns) and glycerophosphoethanolamine (GroPEth), to yield a glycerol phosphate and an alcohol (By similarity). Hydrolyzes glycerophospho-N-acylethanolamines to N-

acylethanolamines in the brain and participates in bioactive N- acylethanolamine biosynthesis such as anandamide (an endocannabinoid), N-palmitoylethanolamine (an anti-inflammatory), and N- oleoylethanolamine (an anorexic). In addition, has a lysophospholipase D activity by hydrolyzing N-acyl-lysoplasmenylethanolamine (N-acyl- lysoPlsEt) to N-acylethanolamine. However lysophospholipase D activity is lower than glycerophosphodiester phosphodiesterase activity (By similarity). Has little or no activity towards glycerophosphocholine (By similarity).

#### Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q9JL55}; Multi-pass membrane protein. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:Q9JL55}; Multi-pass membrane protein. Note=Perinuclear vesicles and cell membrane {ECO:0000250|UniProtKB:Q9JL55}

#### Tissue Location

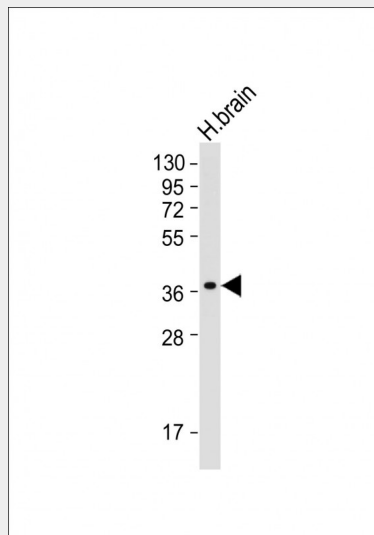
Widely expressed..

### GDE1 Antibody - 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](#)

### GDE1 Antibody - Images



Anti-GDE1 Antibody at 1:2000 dilution + human brain tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 38 kDa Blocking/Dilution buffer: 5% NFDN/TBST.

### GDE1 Antibody - Background

Has glycerophosphoinositol phosphodiesterase activity. Has little or no activity towards

glycerophosphocholine. GDE1 activity can be modulated by G-protein signaling pathways (By similarity).

#### **GDE1 Antibody - References**

- Zheng B.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:3999-4004(2000).  
Duennebier F.F.,et al.Submitted (NOV-2003) to the EMBL/GenBank/DDBJ databases.  
Loftus B.J.,et al.Genomics 60:295-308(1999).  
Bachmann A.S.,et al.Gene 371:144-153(2006).