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

Specification

GDE1 Antibody - Product Information

Application	**WB,E**
Primary Accession	Q9NZC3
Reactivity	**Human**
Predicted	**Human**
Host	**Mouse**
Clonality	**monoclonal**
Isotype	**IgG1,κ**
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 glycerophosphodiesters 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}

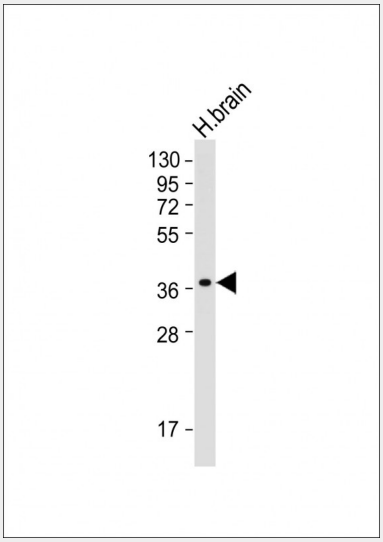
Tissue Location
Widely expressed..

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 Cytomety
- 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% NFDM/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).