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GDE1 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8683b

Product Information

Application	WB, E
Primary Accession	Q9NZC3
Reactivity	Human, Mouse
Predicted	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1,κ
Clone Names	2021CT823.61.7
Calculated MW	37718

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 E~~Use at an assay dependent concentration.
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.

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..

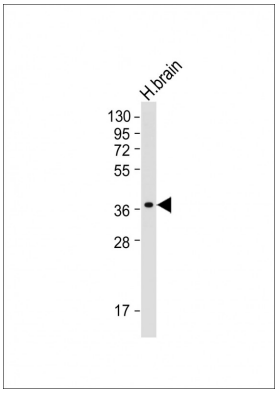
Background

Has glycerophosphoinositol phosphodiesterase activity. Has little or no activity towards glycerophosphocholine. GDE1 activity can be modulated by G-protein signaling pathways (By similarity).

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).

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.

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