

**GDE1 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18638c**

**Specification**

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**GDE1 Antibody (Center) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">O9NZC3</a>
Other Accession	<a href="#">NP_057725.1</a>
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	192-219

**GDE1 Antibody (Center) - Additional Information**

**Gene ID** 51573

**Other Names**

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

**Target/Specificity**

This GDE1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 192-219 amino acids of human GDE1.

**Dilution**

WB~~1:1000

FC~~1:25

**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**

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

**GDE1 Antibody (Center) - Protein Information**

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

**Function** Hydrolyzes the phosphodiester bond of glycerophosphodiesterases such as

glycerophosphoinositol (GroPIs) 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- lysoPIsEt) 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

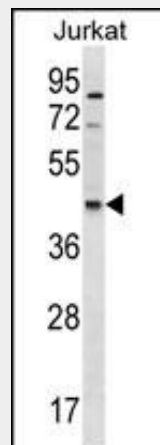
Widely expressed..

### GDE1 Antibody (Center) - Protocols

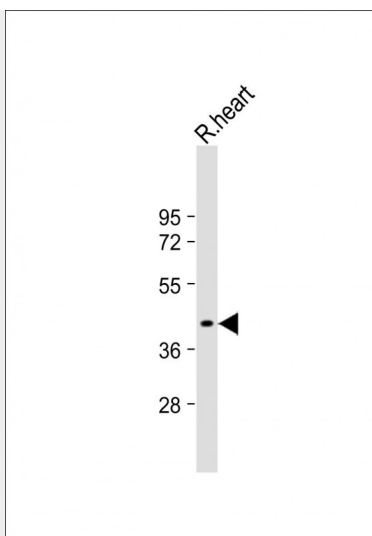
Provided below are standard protocols that you may find useful for product applications.

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

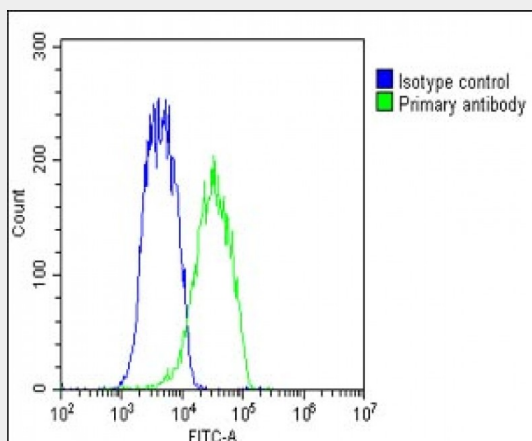
### GDE1 Antibody (Center) - Images



GDE1 Antibody (Center) (Cat. #AP18638c) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the GDE1 antibody detected the GDE1 protein (arrow).



Anti-GDE1 Antibody (Center) at 1:1000 dilution + Rat heart lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 38 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



Overlay histogram showing HeLa cells stained with AP18638c (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP18638c, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed (1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1  $\mu$ g/1  $\times 10^6$  cells) used under the same conditions. Acquisition of >10,000 events was performed.

### GDE1 Antibody (Center) - Background

GDE1 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 (Center) - References

- Zhang, X., et al. Cancer Res. 70(18):7176-7186(2010)
- Corthals, S.L., et al. Leuk. Res. 34(5):677-681(2010)
- Simon, G.M., et al. J. Biol. Chem. 283(14):9341-9349(2008)
- Ma, J., et al. Atherosclerosis 191(1):63-72(2007)

Bachmann, A.S., et al. Gene 371(1):144-153(2006)