

## **GDE1 Antibody (Center) Blocking Peptide**

Synthetic peptide

Catalog # BP18638c

### **Specification**

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#### **GDE1 Antibody (Center) Blocking Peptide - Product Information**

Primary Accession

[O9NZC3](#)

#### **GDE1 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 51573

##### **Other Names**

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

##### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

##### **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

##### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

#### **GDE1 Antibody (Center) Blocking Peptide - Protein Information**

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

##### **Function**

Hydrolyzes the phosphodiester bond of glycerophosphodiester 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-lysoplasmeneylethanolamine (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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **GDE1 Antibody (Center) Blocking Peptide - Images**

### **GDE1 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)