

# GDI1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20083b

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P31150</a>
<b>Other Accession</b>	<a href="#">P50398</a> , <a href="#">P50396</a> , <a href="#">Q8HXX7</a> , <a href="#">P21856</a> , <a href="#">NP_001484.1</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Predicted</b>	Bovine, Monkey, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB42409
<b>Calculated MW</b>	50583
<b>Antigen Region</b>	415-443

## Additional Information

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<b>Gene ID</b>	2664
<b>Other Names</b>	Rab GDP dissociation inhibitor alpha, Rab GDI alpha, Guanosine diphosphate dissociation inhibitor 1, GDI-1, Oligophrenin-2, Protein XAP-4, GDI1, GDIL, OPHN2, RABGDIA, XAP4
<b>Target/Specificity</b>	This GDI1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 415-443 amino acids from the C-terminal region of human GDI1.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	GDI1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	GDI1
<b>Synonyms</b>	GDIL, OPHN2, RABGDIA, XAP4

<b>Function</b>	Regulates the GDP/GTP exchange reaction of most Rab proteins by inhibiting the dissociation of GDP from them, and the subsequent binding of GTP to them. Promotes the dissociation of GDP-bound Rab proteins from the membrane and inhibits their activation. Promotes the dissociation of RAB1A, RAB3A, RAB5A and RAB10 from membranes.
<b>Cellular Location</b>	Cytoplasm. Golgi apparatus, trans-Golgi network
<b>Tissue Location</b>	Brain; predominant in neural and sensory tissues.

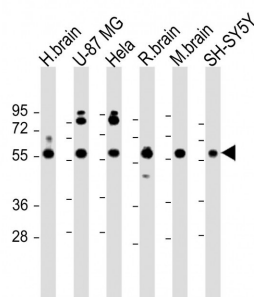
## Background

GDP dissociation inhibitors are proteins that regulate the GDP-GTP exchange reaction of members of the rab family, small GTP-binding proteins of the ras superfamily, that are involved in vesicular trafficking of molecules between cellular organelles. GDIs slow the rate of dissociation of GDP from rab proteins and release GDP from membrane-bound rabs. GDI1 is expressed primarily in neural and sensory tissues. Mutations in GDI1 have been linked to X-linked nonspecific mental retardation.

## References

Martins-de-Souza, D., et al. J Psychiatr Res 44(14):989-991(2010)  
 Massignan, T., et al. Mol. Cell Proteomics 9(4):611-622(2010)  
 Chen, Y., et al. Biochem. J. 422(2):229-235(2009)  
 Zhang, K.J., et al. Yi Chuan 30(5):590-594(2008)  
 Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :

## Images



All lanes : Anti-GDI1 Antibody (C-term) at 1:2000 dilution  
 Lane 1: human brain lysate Lane 2: U-87 MG whole cell lysate Lane 3: Hela whole cell lysate Lane 4: rat brain lysate Lane 5: mouse brain lysate Lane 6: SH-SY5Y whole cell lysate  
 Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 51 kDa  
 Blocking/Dilution buffer: 5% NFDM/TBST.

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