

For Research Use Only

GNAO1 Polyclonal antibody

Catalog Number: 12635-1-AP **10 Publications**



Basic Information

Catalog Number: 12635-1-AP	GenBank Accession Number: BC030027	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 450 ug/ml by Nanodrop and 220 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2775	Recommended Dilutions: WB 1:2000-1:16000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P09471	
Isotype: IgG	Full Name: guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O	
Immunogen Catalog Number: AG3330	Calculated MW: 302 aa, 35 kDa	
	Observed MW: 40 kDa	

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, Y79 cells, human liver tissue, mouse testis tissue, rat testis tissue, rat brain tissue

IP : mouse brain tissue,

IHC : human gliomas tissue,

Background Information

GNAO1 gene encodes the α subunit of heterotrimeric guanine nucleotide-binding protein (Gi protein), a membrane protein widely expressed in the central nervous system involved in signal transduction (PMID: 30642806). GNAO1 belongs to the G-alpha family and G(i/o/t/z) subfamily. GNAO1 is highly expressed in brain and modulate neuronal excitability (PMID: 30838255). GNAO1 has 2 isoforms with the molecular mass of 40 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Meiling Du	34900204	J Healthc Eng	IHC
Jenna LAumiller	36626984	J Biol Chem	WB,IF
Juan Zhen	26718829	Neurochem Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

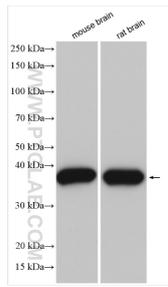
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

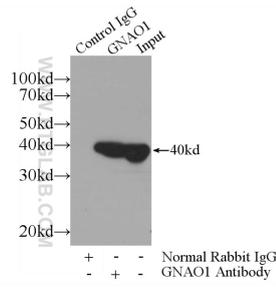
E: proteintech@ptglab.com
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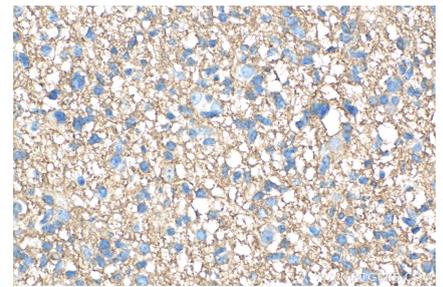
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12635-1-AP (GNAO1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP result of anti-GNAO1 (IP:12635-1-AP, 3ug; Detection:12635-1-AP 1:600) with mouse brain tissue lysate 3600ug.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 12635-1-AP (GNAO1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).