## For Research Use Only

# GNAO1 Polyclonal antibody

Catalog Number: 12635-1-AP 10 Publications



**Basic Information** 

Catalog Number:

12635-1-AP

Size:

450 µg/ml

Source:

Rabbit

BC030027

GeneID (NCBI):

2775

UNIPROT ID:

Rabotype:

Full Name:

guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O

Calculated MW: 302 aa, 35 kDa Observed MW:

40 kDa

**Applications** 

Tested Applications: IHC, IP, WB, ELISA Cited Applications: WB, IHC, IF Species Specificity: human, mouse, rat Cited Species:

human, mouse

Immunogen Catalog Number:

AG3330

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

**Purification Method:** 

WB 1:2000-1:16000

protein lysate

IHC 1:50-1:500

Antigen affinity purification

IP 0.5-4.0 ug for 1.0-3.0 mg of total

Recommended Dilutions:

IP: mouse brain tissue,
IHC: human gliomas tissue,

# **Background Information**

GNAO1 gene encodes the  $\,^{^{\circ}}$  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 L Aumiller	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

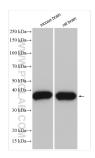
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

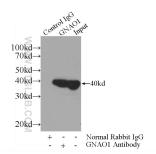
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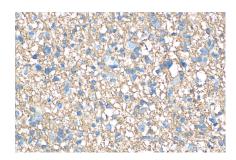
## **Selected Validation Data**



Various lysates were subjected to SDS PAGE followed by western blot with 12635-1-AP (GNAO 1 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 paraffinembedded human gliomas tissue slide using 12635-1-AP (GNAO 1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).