

For Research Use Only

GNAO1 Polyclonal antibody

Catalog Number: 12635-1-AP **9 Publications**



Basic Information

Catalog Number:

12635-1-AP

Size:

450 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3330

GenBank Accession Number:

BC030027

GeneID (NCBI):

2775

UNIPROT ID:

P09471

Full Name:

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

Calculated MW:

302 aa, 35 kDa

Observed MW:

40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

WB, IF, IHC

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

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

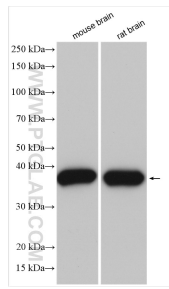
T: 4006900926

E: Proteintech-CN@ptglab.com

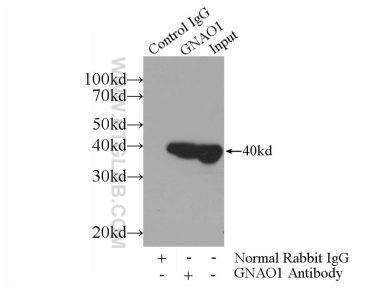
W: ptgcn.com

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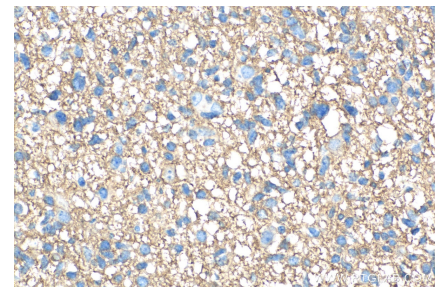
Selected Validation Data



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).