

For Research Use Only

GNAO1 Polyclonal antibody

Catalog Number: 12635-1-AP **6 Publications**



Basic Information

Catalog Number: 12635-1-AP	GenBank Accession Number: BC030027	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop and 220 µg/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 IP and 1:500-1:1000
Source: Rabbit	Full Name: guanine nucleotide binding protein (G _i for WB protein), alpha activating activity polypeptide O	IHC 1:50-1:500
Isotype: IgG	Calculated MW: 302 aa, 35 kDa	
Immunogen Catalog Number: AG3330	Observed MW: 40 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: IHC, WB	WB : mouse testis tissue, rat brain tissue, Y79 cells, human liver tissue, human brain tissue, rat testis tissue
Species Specificity: human, mouse, rat	IP : mouse brain tissue,
Cited Species: human	IHC : human gliomas tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

GNAO1 gene encodes the α subunit of heterotrimeric guanine nucleotide-binding protein (G_i 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(i1/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
Juan Zhen	26718829	Neurochem Res	WB
Zhen Liu	24366063	Int J Mol Med	IHC

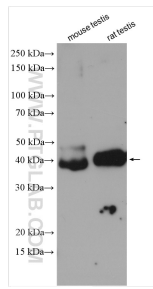
Storage

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

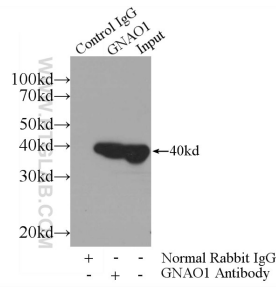
For technical support and original validation data for this product please contact:
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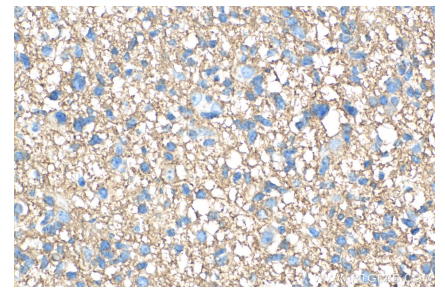
Selected Validation Data



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).