

For Research Use Only

# GNAO1 Monoclonal antibody, PBS Only



Catalog Number: 68027-1-PBS

## Basic Information

<b>Catalog Number:</b> 68027-1-PBS	<b>GenBank Accession Number:</b> BC030027	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 2775	<b>CloneNo.:</b> 1B5G2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P09471	
<b>Isotype:</b> IgG1	<b>Full Name:</b> guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O	
<b>Immunogen Catalog Number:</b> AG32045	<b>Calculated MW:</b> 302 aa, 35 kDa	
	<b>Observed MW:</b> 40 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA, IHC, IF

**Species Specificity:**  
Mouse, Rat, Rabbit, Pig, Chicken, Human

## Background Information

GNAO1 gene encodes the  $\alpha$  subunit of heterotrimeric guanine nucleotide-binding protein (G<sub>i</sub> 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.

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

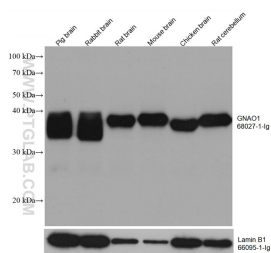
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

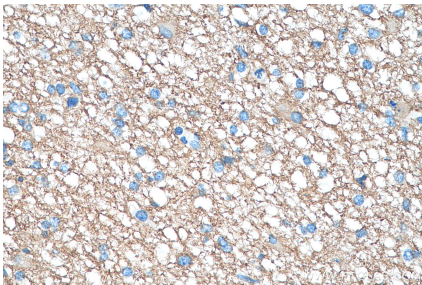
W: [ptgcn.com](http://ptgcn.com)

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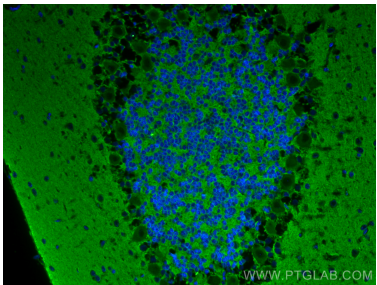
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68027-1-Ig (GNAO1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Lamin B1 Monoclonal antibody (66095-1-Ig) as loading control. This data was developed using the same antibody clone with 68027-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 68027-1-Ig (GNAO1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68027-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed rat cerebellum tissue using GNAO1 antibody (68027-1-Ig, Clone: 1B5G2 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 68027-1-PBS in a different storage buffer formulation.