For Research Use Only

GNAO1 Monoclonal antibody

Catalog Number: 68027-1-Ig



Basic Information

Catalog Number: GenBank Accession Number: 68027-1-lg BC030027

GeneID (NCBI): Size: CloneNo.: 1000 µg/ml 1B5G2

40 kDa

UNIPROT ID: Recommended Dilutions: Source: Mouse P09471 WB 1:5000-1:50000 IHC 1:1000-1:4000 Full Name: Isotype: guanine nucleotide binding protein (G^{IF-P} 1:200-1:800 lgG1

protein), alpha activating activity Immunogen Catalog Number:

polypeptide O AG32045

Calculated MW: 302 aa, 35 kDa Observed MW:

Applications

Tested Applications: IF-P, IHC, WB, ELISA

Species Specificity:

Mouse, Rat, Rabbit, Pig, Chicken, Human

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

buffer pH 6.0

WB: pig brain tissue, rabbit brain tissue, rat brain tissue, mouse brain tissue, chicken brain tissue, rat cerebellum tissue

Purification Method:

Protein G purification

IHC: human gliomas tissue, IF-P: rat cerebellum tissue,

Background Information

GNAO1 gene encodes the a 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.

Storage

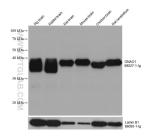
Storage:

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

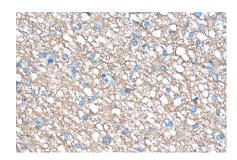
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

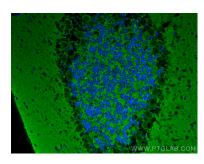
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68027-1-1g (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 (66095-1-1g) as loading control.



Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 68027-1-Ig (GNAO 1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).