

For Research Use Only

GNAI2 Polyclonal antibody

Catalog Number: 11136-1-AP **5 Publications**



Basic Information

Catalog Number:

11136-1-AP

Size:

550 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1597

GenBank Accession Number:

BC012138

GeneID (NCBI):

2771

UNIPROT ID:

P04899

Full Name:

guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2

Calculated MW:

41 kDa

Observed MW:

35-40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:50-1:500

IF 1:200-1:800

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

WB, IF, CoIP

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: fetal human brain tissue, mouse brain tissue, SKOV-3 cells, rat brain tissue

IP: mouse brain tissue,

IHC: mouse brain tissue, human brain tissue, human kidney tissue, human lung cancer tissue, mouse ovary tissue, human tonsillitis tissue

IF: HeLa cells,

Background Information

GNAI2, also named as GNAI2B, belongs to the G-alpha family. G(i/o/t/z) subfamily. Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. The G(i) proteins are involved in hormonal regulation of adenylate cyclase: they inhibit the cyclase in response to beta-adrenergic stimuli. GNAI2 is 93% homolog to GNAI1, 94% to GNAI3, 85% to GNAT3, 82% to GNAT2.

Notable Publications

Author	Pubmed ID	Journal	Application
Anil Akturk	36260679	Sci Adv	WB,CoIP
Katie S Kindt	34001891	Nat Commun	WB
Jie Li	24658464	Oncotarget	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:

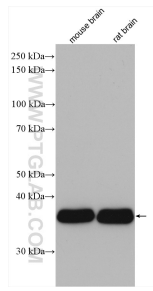
T: 4006900926

E: Proteintech-CN@ptglab.com

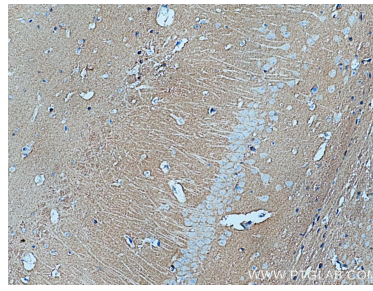
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

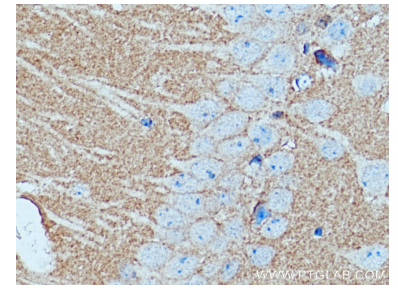
Selected Validation Data



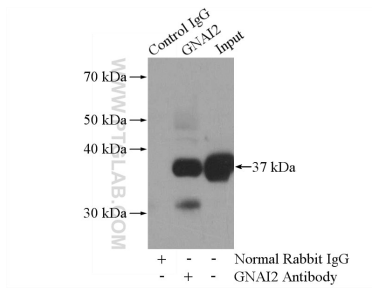
Various lysates were subjected to SDS PAGE followed by western blot with 11136-1-AP (GNAI2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



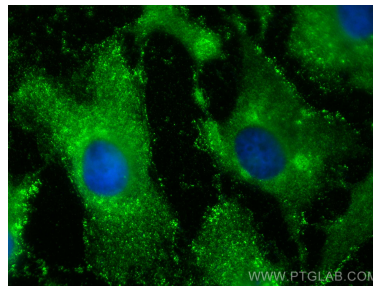
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11136-1-AP (GNAI2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 11136-1-AP (GNAI2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-GNAI2 (IP:11136-1-AP, 4 μ g; Detection:11136-1-AP 1:500) with mouse brain tissue lysate 4000 μ g.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using GNAI2 antibody (11136-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).