

GNAS Polyclonal antibody

Catalog Number: 10150-2-AP

Featured Product

7 Publications

Basic Information

Catalog Number:

10150-2-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0197

GenBank Accession Number:

BC002722

GeneID (NCBI):

2778

UNIPROT ID:

O95467

Full Name:

GNAS complex locus

Calculated MW:

45 kDa

Observed MW:

46 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:12000

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

IHC 1:200-1:800

IF 1:50-1:500

Applications

Tested Applications:

IF/ICC, IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

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: Jurkat cells, mouse brain tissue, HepG2 cells, MCF-7 cells, mouse liver tissue, rat liver tissue, rat brain tissue

IP: mouse liver tissue,

IHC: mouse brain tissue, human pancreas tissue, human colon tissue

IF: HeLa cells,

Background Information

Guanine nucleotide binding protein (G protein), alpha stimulating activity polypeptide 1 (GNAS1) is the ubiquitously expressed heterotrimeric G protein that couples receptors to the effector enzyme adenylyl cyclase and is required for receptor-stimulated intracellular cAMP generation. Mutations of Gs(alpha) residues involved in the GTPase reaction that lead to constitutive activation are present in endocrine tumors, fibrous dysplasia of bone, and McCune-Albright syndrome. The molecular weight of Gs(alpha) protein is about 46 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Gemoll Timo T	21290163	Cell Mol Life Sci	WB
Hongda Ding	32123532	Cell Mol Biol Lett	WB,IF
Lele Liu	32036696	Am J Physiol Renal Physiol	WB,IF

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

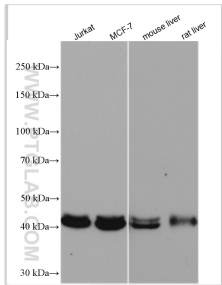
For technical support and original validation data for this product please contact:

T: 4006900926

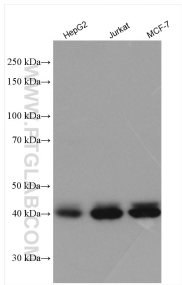
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

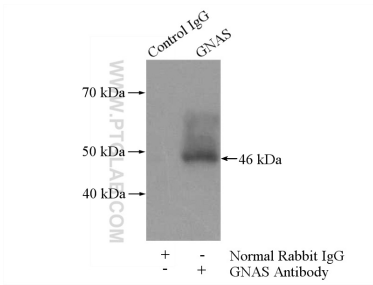
Selected Validation Data



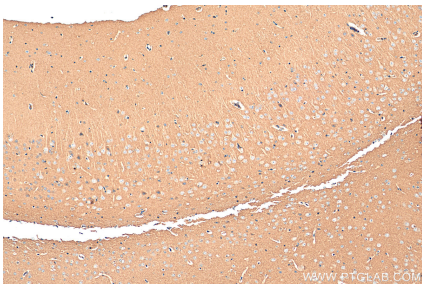
Various lysates were subjected to SDS PAGE followed by western blot with 10150-2-AP (GNAS antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



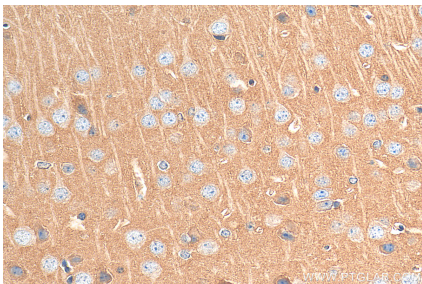
HepG2 cells were subjected to SDS PAGE followed by western blot with 10150-2-AP (GNAS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-GNAS (IP:10150-2-AP, 4ug; Detection:10150-2-AP 1:300) with mouse liver tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10150-2-AP (GNAS antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10150-2-AP (GNAS antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using GNAS antibody (10150-2-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), 594-phalloidine (red).