For Research Use Only

GNAI1 Polyclonal antibody

Catalog Number:12617-1-AP 2 Publications

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Basic Information

Catalog Number:
12617-1-AP

Size:
150ul , Concentration: 350 µg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3290

GenBank Accession Number:
BC026326

GeneID (NCBI):
2770

Full Name:
guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1

Calculated MW:
354 aa, 40 kDa

Observed MW:
38-40 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000
IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
IHC 1:500-1:2000

Applications

Tested Applications:
FC, IHC, IP, WB, ELISA

Cited Applications:
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 : mouse brain tissue, fetal human brain tissue, rat brain tissue

IP : SH-SY5Y cells,

IHC : human kidney tissue, rat kidney tissue

Background Information

The guanine nucleotide-binding protein G(i), α-1 subunit (GNAI1), also known as Gαi-1, belongs to the Gαi family. GNAI1 is an adenylate cyclase inhibitor that modulates cAMP. GNAI1 exerts inhibitory effects on cAMP production through its interaction with GPCR and the inactivation of adenyl cyclase (PMID: 35678269). GNAI1 has 2 isoforms with molecular weights of 35 and 40 kDa, respectively.

Notable Publications

Author	Pubmed ID	Journal	Application
Dianna Liu	35210754	Drug Des Devel Ther	WB
Fenglin Li	36081671	J Oncol	WB

Storage

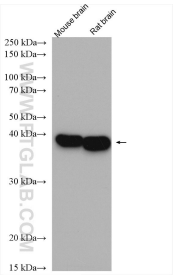
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

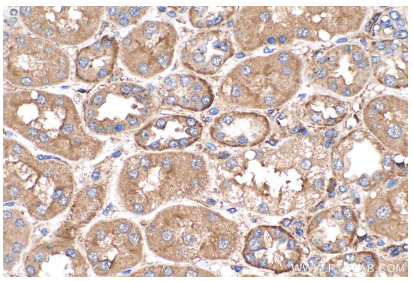
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

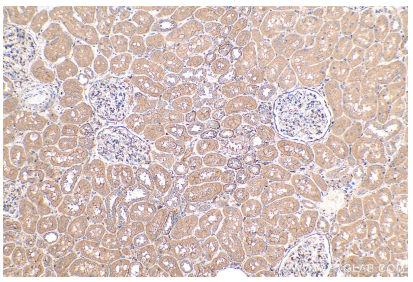
Selected Validation Data



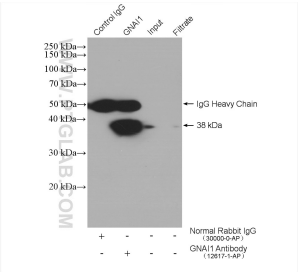
Various lysates were subjected to SDS PAGE followed by western blot with 12617-1-AP (GNAI1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



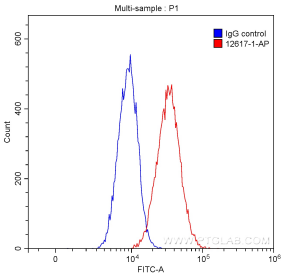
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 12617-1-AP (GNAI1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 12617-1-AP (GNAI1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-GNAI1 (IP:12617-1-AP, 4ug; Detection:12617-1-AP 1:1000) with SH-SY5Y cells lysate 800 ug.



1X10^6 SH-SY5Y cells were intracellularly stained with 0.20 ug/test Anti-Human GNAI1 (12617-1-AP) (red) or 0.20 ug control antibody (blue) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000. Fixed with90% MeOH.