For Research Use Only

GNAT1 Polyclonal antibody

Size:

Catalog Number:55167-1-AP 11 Publications



Basic Information

Catalog Number: GenBank Accession Number:

55167-1-AP NM 000172 Antigen affinity purification GeneID (NCBI): Recommended Dilutions: 150ul , Concentration: 400 ug/ml by WB 1:2000-1:10000 Nanodrop and 233 ug/ml by Bradford $\,$ UNIPROT ID: IHC 1:750-1:3000

method using BSA as the standard; P11488 Source: Full Name:

Rabbit guanine nucleotide binding protein (G Isotype: protein), alpha transducing activity polypeptide 1

Calculated MW: 40 kDa Observed MW: 35-40 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications: WB, IHC, IF Species Specificity:

human, mouse, rat Cited Species: mouse, zebrafish

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

WB: mouse retina tissue, mouse eye tissue, rat retina

Purification Method:

IF/ICC 1:50-1:500

IHC: mouse eye tissue, IF/ICC: HeLa cells,

Background Information

GNAT1, also named as GNATR, belongs to the G-alpha family and G(i/o/t/z) subfamily. Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. Transducin is an amplifier and one of the transducers of a visual impulse that performs the coupling between rhodopsin and cGMP-phosphodiesterase. Defects in GNAT1 are the cause of congenital stationary night blindness autosomal dominant type 3 (CSNBAD3). This antibody is specific to GNAT1.

Notable Publications

Author	Pubmed ID	Journal	Application
Christie K Campla	36180221	eNeuro	IHC
Juan M Angueyra	30283779	Front Cell Dev Biol	
Jie Zhang	34805789	iScience	WB

Storage

Storage:

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

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

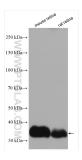
For technical support and original validation data for this product please contact:

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.

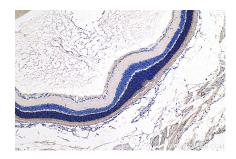
Selected Validation Data



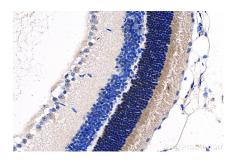
Various lysates were subjected to SDS PAGE followed by western blot with 55167-1-AP (GNAT1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



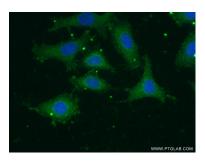
WB results of GNAT1 antibody (55167-1-AP) with WT mouse Eye and Prph2 (Rds) mutant mouse Eye (Negative control). Courtesy of Seongjin Seo, PhD, University of Iowa College of Medicine.



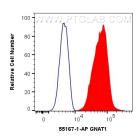
Immunohistochemical analysis of paraffinembedded mouse eye tissue slide using 55167-1-AP (GNAT1 antibody) at dilution of 1:1500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse eye tissue slide using 55167-1-AP (GNAT1 antibody) at dilution of 1:1500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 55167-1-AP (GNAT1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human GNAT1 (55167-1-AP) and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).