For Research Use Only

GNAT1 Polyclonal antibody

Catalog Number:55167-1-AP 11 Publications

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Basic Information

Catalog Number:
55167-1-AP

Concentration:
500 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_000172

GeneID (NCBI):
2779

UNIPROT ID:
P11488

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

Calculated MW:
40 kDa

Observed MW:
35-40 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:10000
IHC 1:750-1:3000
IF/ICC 1:50-1:500

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

Positive Controls:

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

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.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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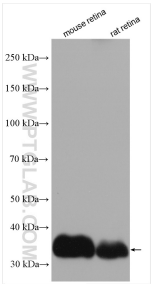
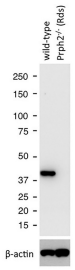
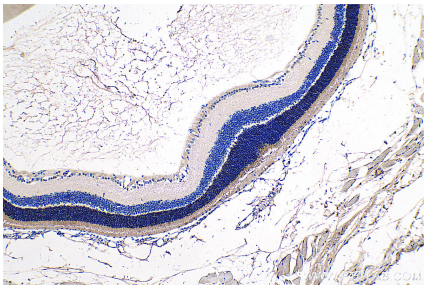
Selected Validation Data



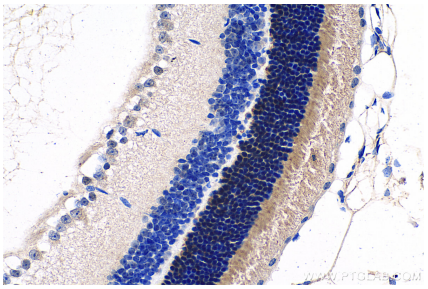
Various lysates were subjected to SDS PAGE followed by western blot with 55167-1-AP (GNAT1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



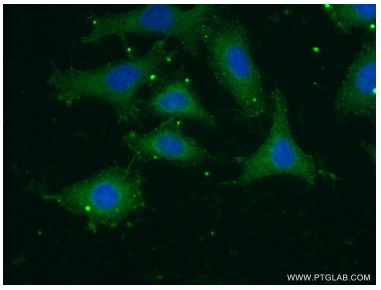
WB results of GNAT1 antibody (55167-1-AP) with WT mouse Eye and Prph2 (Rds) mutant mouse Eye (Negative control). Courtesy of Seongjin Seo, PhD, University of Iowa College of Medicine.



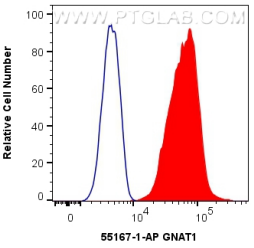
Immunohistochemical analysis of paraffin-embedded mouse eye tissue slide using 55167-1-AP (GNAT1 antibody) at dilution of 1:1500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded 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℃ 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).