

Rabbit GNAT1 Polyclonal Antibody | anti-GNAT1 antibody

GNAT1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324775	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

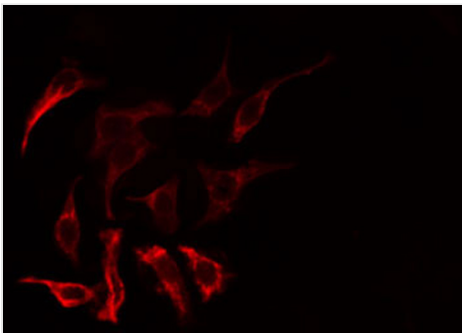
PRODUCT SYNONYMS

GNAT1; Polyclonal Antibody; GNAT1 Antibody; CSNBAD3; GBT1; GNAT1_HUMAN; GNATR; guanine nucleotide binding protein (G protein) alpha transducing activity polypeptide 1; guanine nucleotide binding protein G(T) alpha 1 subunit; Guanine nucleotide-binding protein G(t) subunit alpha-1; Rod specific transducin; rod-type transducin alpha subunit; Transducin alpha-1 chain; transducin; rod-specific; anti-GNAT1 antibody

PRODUCT SPECIFICATIONS

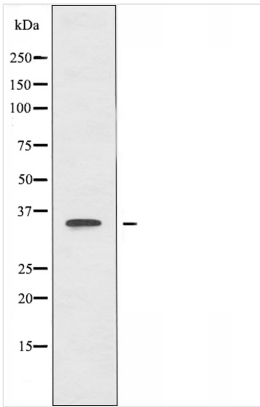
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GNAT1 antibody detects endogenous levels of total GNAT1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	350
Applicable Applications for anti-GNAT1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Tissue Specificity	Rod photoreceptor cells (PubMed:1614872). Predominantly expressed in the retina followed by the ciliary body, iris and retinal pigment epithelium (PubMed:22190596).
Predicted Cross Reactivity	Zebrafish, Bovine, Horse, Sheep, Dog, Chicken, Xenopus
Similarity	Zebrafish (82%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA324775 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from COLO cells, using GNAT1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-GNAT1 antibody

Function: Functions as signal transducer for the rod photoreceptor RHO. Required for normal RHO-mediated light perception by the retina (PubMed:22190596). Guanine nucleotide-binding proteins (G proteins) function as transducers downstream of G protein-coupled receptors (GPCRs), such as the photoreceptor RHO. The alpha chain contains the guanine nucleotide binding site and alternates between an active, GTP-bound state and an inactive, GDP-bound state. Activated RHO promotes GDP release and GTP binding. Signaling is mediated via downstream effector proteins, such as cGMP-phosphodiesterase (By similarity).
Subunit Structure: Heterotrimeric G proteins are composed of 3 subunits alpha, beta and gamma. The alpha chain contains the guanine nucleotide binding site. Interacts with RHO. Interacts with RGS9 and PDE6G (By similarity). Interacts (when myristoylated) with UNC119; interaction is required for localization in sensory neurons (PubMed:21642972).
Similarity: Belongs to the G-alpha family. G(i/o/t/z) subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	22027520
NCBI GeneID	2779
NCBI Accession #	NP_000163.2
NCBI GenBank Nucleotide #	NM_000172.3
UniProt Accession #	P11488; Q4VBN2
Molecular Weight	Observed: 36 kD Predicted: 41 kDa
NCBI Official Full Name	guanine nucleotide-binding protein G(t) subunit alpha-1
NCBI Official Synonym Full Names	G protein subunit alpha transducin 1
NCBI Official Symbol	GNAT1
NCBI Official Synonym Symbols	GBT1; GNATR; CSNB1G; CSNBAD3
NCBI Protein Information	guanine nucleotide-binding protein G(t) subunit alpha-1
UniProt Protein Name	Guanine nucleotide-binding protein G(t) subunit alpha-1
UniProt Gene Name	GNAT1
UniProt Synonym Gene Names	GNATR

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gnat1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324775>