



## Rabbit Anti-GNAT2 antibody

SL11560R

<b>Product Name:</b>	GNAT2
<b>Chinese Name:</b>	G蛋白转录因子 $\alpha$ 2/G $\alpha$ t2抗体
<b>Alias:</b>	ACHM4; Cone type transducin alpha subunit; GNAT 2; GNAT C; Gnat2; GNAT2_HUMAN; GNATC; Guanine nucleotide binding protein (G protein) alpha transducing; polypeptide 2; Guanine nucleotide binding protein G t subunit alpha 2; Guanine nucleotide-binding protein G(t) subunit alpha-2; Transducin alpha 2; Transducin alpha-2 chain; Transducin alpha2; Transducin cone specific alpha polypeptide.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	40kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human GNAT2:2-100/354
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Transducin is a 3-subunit guanine nucleotide-binding protein (G protein) which stimulates the coupling of rhodopsin and cGMP-phosphodiesterase during visual

impulses. The transducin alpha subunits in rods and cones are encoded by separate genes. This gene encodes the alpha subunit in cones.

**Function:**

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.

**Subunit:**

G proteins are composed of 3 units; alpha, beta and gamma. The alpha chain contains the guanine nucleotide binding site.

**Tissue Specificity:**

Retinal rod outer segment.

**DISEASE:**

Defects in GNAT2 are the cause of achromatopsia type 4 (ACHM4) [MIM:139340]. Achromatopsia is an autosomal recessively inherited visual disorder that is present from birth and that features the absence of color discrimination.

**Similarity:**

Belongs to the G-alpha family. G(i/o/t/z) subfamily.

**SWISS:**

P19087

**Gene ID:**

2780

**Database links:**

[Entrez Gene: 2780](#)Human

[Entrez Gene: 14686](#)Mouse

[Entrez Gene: 365901](#)Rat

[Omim: 139340](#)Human

[SwissProt: P19087](#)Human

[SwissProt: P50149](#)Mouse

[Unigene: 36973](#)Human

[Unigene: 439652](#)Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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