

## Gα t2 Polyclonal Antibody

<b>Catalog No :</b>	YT2095
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Gα t2
<b>Fields :</b>	>>Phototransduction
<b>Gene Name :</b>	GNAT2
<b>Protein Name :</b>	Guanine nucleotide-binding protein G(t) subunit alpha-2
<b>Human Gene Id :</b>	2780
<b>Human Swiss Prot No :</b>	P19087
<b>Mouse Gene Id :</b>	14686
<b>Mouse Swiss Prot No :</b>	P50149
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human GNAT2. AA range:1-50
<b>Specificity :</b>	Gα t2 Polyclonal Antibody detects endogenous levels of Gα t2 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year (Do not lower than -25°C)

**Observed Band :** 40kD

**Background :** 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. [provided by RefSeq, Jul 2008],

**Function :** 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., 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., similarity: Belongs to the G-alpha family. G(i/o/t/z) subfamily., 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.,

**Subcellular Location :** Cell projection, cilium, photoreceptor outer segment . Photoreceptor inner segment . Localizes mainly in the outer segment in the dark-adapted state, whereas is translocated to the inner part of the photoreceptors in the light-adapted state. During dark-adapted conditions, in the presence of UNC119 mislocalizes from the outer segment to the inner part of rod photoreceptors which leads to decreased photoreceptor damage caused by light. .

**Expression :** Retinal rod outer segment.

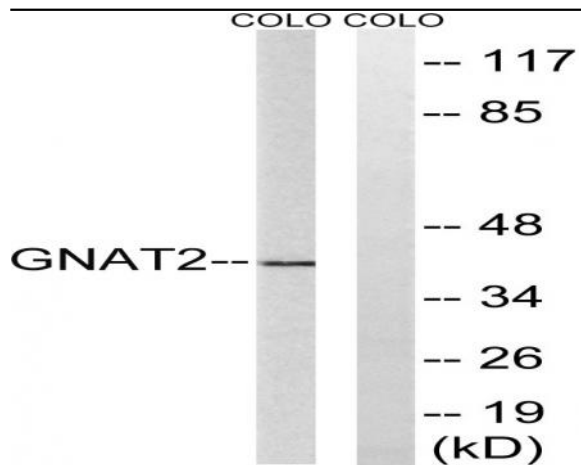
**Sort :** 7206

**No4 :** 1

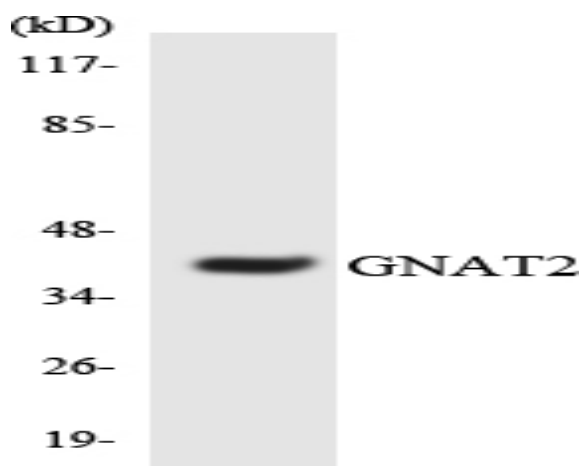
**Host :** Rabbit

**Modifications :** Unmodified

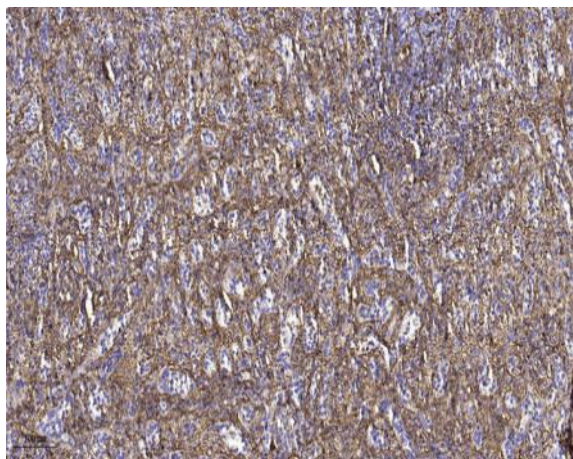
## Products Images



Western blot analysis of lysates from COLO cells, using GNAT2 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from Jurkat cells using GNAT2 antibody.



Immunohistochemical analysis of paraffin-embedded human spleen tissue. 1, primary Antibody was diluted at 1:200(4° overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval(>98 °C,20min). 3, Secondary antibody was diluted at 1:200