




### Anti-GNAT1 antibody ab3504

**3 References**   **1 图像**

#### 概述

产品名称	Anti-GNAT1抗体
描述	兔多克隆抗体to GNAT1
宿主	Rabbit
特异性	Detects Rod Transducin alpha from bovine outer rod segments and sheep retinal extract.
经测试应用	适用于: WB
种属反应性	与反应: Sheep 预测可用于: Rat, Dog, Human, Xenopus laevis 
免疫原	Synthetic peptide corresponding to Human GNAT1 aa 1-100.  <a href="#">Run BLAST with ExPASy</a>  <a href="#">Run BLAST with NCBI</a>
阳性对照	WB: sheep retinal extracts
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

#### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 99% PBS
纯度	Immunogen affinity purified
Primary antibody说明	Vision involves the conversion of light into electrochemical signals that are processed by the retina and subsequently sent to and interpreted by the brain. The process of converting light into an electrochemical signal begins when the membrane-bound protein, rhodopsin, absorbs light within the retina. Photoexcitation of rhodopsin causes the cytoplasmic surface of the protein to become catalytically active. In the active state, rhodopsin activates transducin, a GTP binding

protein. Once activated, transducin promotes the hydrolysis of cGMP by phosphodiesterase (PDE). The decrease of intracellular cGMP concentration causes the ion channels within the outer segment of the rod or cone to close, thus causing membrane hyperpolarization and, eventually, signal transmission. Rhodopsin activity is believed to be shut off by phosphorylation followed by binding of the soluble protein, arrestin. Transducin, once activated by rhodopsin, promotes the hydrolysis of cGMP by PDE. The subunit composition of transducin differs between different photoreceptor cells. Rod transducin consists of rod transducin alpha (Tr alpha), T beta, and T gamma. Cone transducin is composed of cone transducin alpha (Tc alpha), T beta and T gamma. Differential transducin subunit composition of transducin is believed to be responsible for the different light sensitivities between photoreceptive cells.

**克隆** 多克隆  
**同种型** IgG

## 应用

**The Abpromise guarantee** Abpromise™ 承诺保证使用ab3504于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
<b>WB</b>		Use a concentration of 1 µg/ml. Detects a band of approximately 38 kDa (predicted molecular weight: 40 kDa).

## 靶标

**功能** 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.

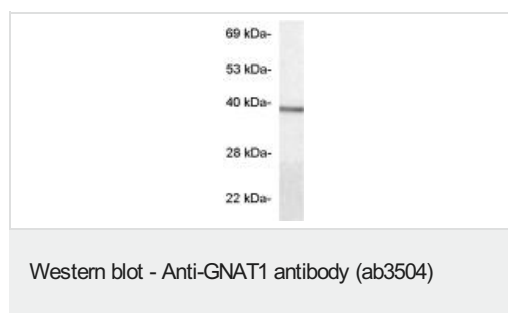
**组织特异性** Rod. Predominantly expressed in the retina followed by the ciliary body, iris and retinal pigment epithelium.

**疾病相关** Night blindness, congenital stationary, autosomal dominant 3  
Night blindness, congenital stationary, 1C

**序列相似性** Belongs to the G-alpha family. G(i/o/t/z) subfamily.

**发展阶段** Expressed at approximately postnatal day 7.

## 图片



Western blot detection of Transducin alpha on sheep retinal extracts using ab3504.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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