

Product datasheet

Anti-GNAT1 antibody ab3504

2 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: Mouse, Sheep, Cow, Pig 预测可用于: Rat, Dog, Human, Xenopus laevis 
免疫原	Synthetic peptide corresponding to Human Transducin alpha aa 18-31. Sequence: KLKEDAEKDARTVK (Peptide available as ab5002)

 [Run BLAST with](#)

 [Run BLAST with](#)

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

Our [Abpromise guarantee](#) covers the use of **ab3504** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 38 kDa (predicted molecular weight: 40 kDa). Can be blocked with GNAT1 peptide (ab5002) .

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.

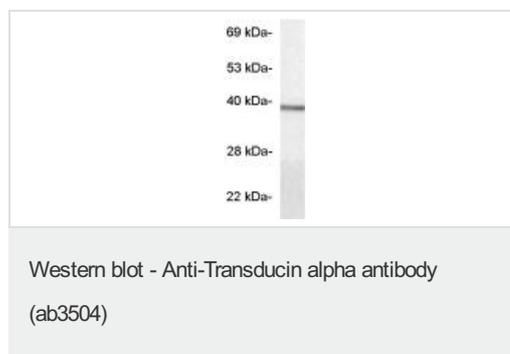
组织特异性 Rod. Predominantly expressed in the retina followed by the ciliary body, iris and retinal pigment epithelium.

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.

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