

Anti-Retinal S antigen antibody ab3435

1 References

概述

产品名称	Anti-Retinal S antigen抗体
描述	兔多克隆抗体to Retinal S antigen
宿主	Rabbit
特异性	Detects recombinant bovine visual Arrestin.
免疫原	Synthetic peptide corresponding to Rat Retinal S antigen aa 347-363. Sequence: EVATEVPFRLMHPQPED Database link: P15887 (Peptide available as ab4974)

 [Run BLAST with](#)

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常规说明

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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 to 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 concentrations causes the ion channels within the outer segment of the rod or cone to close, thus causing membrane hyperpolarization and, eventually, signal transmission. Rhodopsin's activity is believed to be shut off by its phosphorylation followed by binding of the soluble protein arrestin. Arrestins are cytosolic proteins that are involved in G protein-coupled receptor (GPCR) desensitization. Arrestin binding to activated GPCRs is phosphorylation dependent and, once bound, uncouple the GPCR from the associated heterotrimeric G proteins. There are currently 4 known mammalian isoforms, beta-Arrestin 1 (Arrestin 2), beta-Arrestin 2 (Arrestin 3), visual Arrestin (Arrestin 1), and cone arrestin. The beta-isoforms are ubiquitously expressed and are known to interact with acetylcholine and adrenergic receptors. Visual and cone Arrestins are found to interact directly with transducin.

克隆 多克隆
同种型 IgG

靶标

功能 Arrestin is one of the major proteins of the ros (retinal rod outer segments); it binds to photoactivated-phosphorylated rhodopsin, thereby apparently preventing the transducin-mediated activation of phosphodiesterase.

组织特异性 Retina and pineal gland.

疾病相关 Defects in SAG are a cause of congenital stationary night blindness Oguchi type 1 (CSNBO1) [MIM:258100]; also known as Oguchi disease. Congenital stationary night blindness is a non-progressive retinal disorder characterized by impaired night vision. CSNBO is an autosomal recessive form associated with fundus discoloration and abnormally slow dark adaptation.

序列相似性 Belongs to the arrestin family.

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