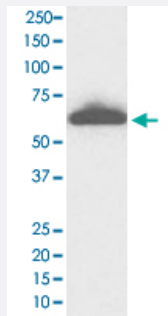


RPE65 monoclonal antibody, clone ABAH-18

Catalog # MAB20681 Size 100 uL

Applications



Western Blot (Tissue lysate)

Western Blot analysis of mouse eyeball tissue lysate with RPE65 monoclonal antibody, clone ABAH-18 (Cat # MAB20681).

Specification

Product Description Rabbit monoclonal antibody raised against synthetic peptide of human RPE65.

Immunogen A synthetic peptide corresponding to human RPE65.

Host Rabbit

Theoretical MW (kDa) 60.948

Reactivity Human

Form Liquid

Purification Affinity purification

Isotype IgG

Recommend Usage
Immunoprecipitation (1:50)
Western Blot (1:500-1:2000)
The optimal working dilution should be determined by the end user.

Storage Buffer In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).

Storage Instruction

Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western Blot analysis of mouse eyeball tissue lysate with RPE65 monoclonal antibody, clone ABAH-18 (Cat # MAB20681).

- Immunoprecipitation

Gene Info — RPE65

Entrez GeneID[6121](#)**Protein Accession#**[Q16518](#)**Gene Name**

RPE65

Gene Alias

LCA2, RP20, mRPE65, rd12, sRPE65

Gene Description

retinal pigment epithelium-specific protein 65kDa

Omim ID[180069 204100](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a protein which is located in the retinal pigment epithelium and is involved in the production of 11-cis retinal and in visual pigment regeneration. There are two forms of this protein, a soluble form called sRPE65, and a palmitoylated, membrane-bound form known as mRPE65. mRPE65 serves as the palmitoyl donor for lecithin retinol acyl transferase (LRAT), the enzyme that catalyzes the vitamin A to all trans retinol step of the chromophore regeneration process. Both mRPE65 and sRPE65 also serve as regulatory proteins, with the ratio and concentrations of these molecules playing a role in the inhibition of 11-cis retinal synthesis. Mutations in this gene have been associated with Leber congenital amaurosis type 2 (LCA2) and retinitis pigmentosa. [provided by RefSeq]

Other Designations

OTTHUMP00000010788|RBP-binding membrane protein|p63|retinal pigment epithelium-specific 61 kDa protein|retinal pigment epithelium-specific protein (65kD)|retinitis pigmentosa 20 (autosomal recessive)

Pathway

- [Retinol metabolism](#)

Disease

- [Blindness](#)
- [Optic Atrophy](#)
- [Retinal Degeneration](#)
- [Retinal Diseases](#)
- [Retinitis Pigmentosa](#)