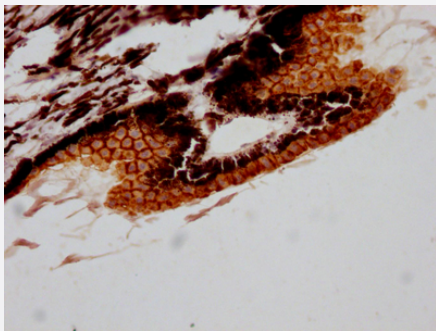


RecomAb™

RPE65 recombinant monoclonal antibody, clone 7B10

Catalog # RAB04084 Size 100 uL

Applications



Immunohistochemistry

Immunohistochemistry image of RPE65 recombinant monoclonal antibody, clone 7B10 diluted at 1:100 and staining in paraffin-embedded human eye tissue performed on a Leica Bond™ system.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human RPE65.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to full length human RPE65.
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. Aliquot to 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

- Immunohistochemistry

Immunohistochemistry image of RPE65 recombinant monoclonal antibody, clone 7B10 diluted at 1:100 and staining in paraffin-embedded human eye tissue performed on a Leica Bond™ system.

- Enzyme-linked Immunoabsorbent Assay

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](#)