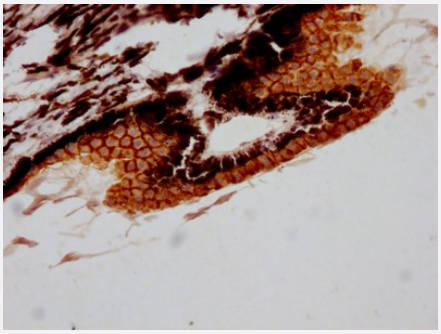
RecomAb™ Sm Size

RPE65 recombinant monoclonal antibody, clone 7B10

Catalog # RAB08239 Size 50 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
Preparation Method	Mammalian cell (HEK293) expression system
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)

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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 shoul d 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 t he production of 11-cis retinal and in visual pigment regeneration. There are two forms of this prot ein, a soluble form called sRPE65, and a palmitoylated, membrane-bound form known as mRPE 65. 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 thes e 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. [provid ed 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 (autoso mal recessive)

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Pathway

- Retinol metabolism

Disease

- Blindness
- Optic Atrophy
- Retinal Degeneration
- Retinal Diseases
- Retinitis Pigmentosa

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