

Recombinant Human RPE65 Protein, DYKDDDDK-tagged

Cat. No. RPE65-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein from the full-length sequence of homo sapiens RPE65, retinoid isomerohydrolase (RPE65) (NM_000329), with a Whitlow linker and DYKDDDDK tag was expressed in human cells.
Species	Human
Source	Human Cells
Description	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.
Molecular Mass	70 kDa
Endotoxin	< 0.1 ng/μg of protein (< 1 EU/μg)
Purity	> 90% by SDS-PAGE gel and Coomassie Blue staining

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Applications	Antigens, WB, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies; For research & development use only!
Storage Buffer	Purified protein formulated in a sterile solution of PBS buffer, pH7.2, without any preservatives
GENE INFORMATION	
Gene Name	RPE65 retinoid isomerohydrolase RPE65 [Homo sapiens (human)]
Official Symbol	RPE65
Synonyms	RPE65; retinoid isomerohydrolase RPE65; p63; BCO3; LCA2; RP20; rd12; mRPE65; sRPE65; retinoid isomerohydrolase; BCO family, member 3; RBP-binding membrane protein; RPE65, retinoid isomerohydrolase; all-trans-retinyl-palmitate hydrolase; lutein isomerase; meso-zeaxanthin isomerase; retinal pigment epithelium specific protein 65; retinal pigment epithelium-specific 65 kDa protein; retinal pigment epithelium-specific protein 65kDa; retinitis pigmentosa 20 (autosomal recessive); retinol isomerase; EC 3.1.1.64; EC 5.3.3.22; ATPase, H ⁺ transporting, lysosomal interacting protein 2; ER-localized type I transmembrane adapter; ER-localized type I transmembrane adaptor; N14F; V-ATPase M8.9 subunit; embryonic liver differentiation factor 10; prorenin receptor; renin/prorenin receptor; vacuolar ATP synthase membrane sector-associated protein M8-9; vacuolar proton ATP synthase membrane sector associated protein M8-9
Gene ID	6121
mRNA Refseq	NM_000329
Protein Refseq	NP_000320

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MIM	180069
UniProt ID	Q16518
SDS-PAGE	

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