



# Anti-RPE65 polyclonal antibody (DPAB-DC2723)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

**Antigen 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.

<b>Immunogen</b>	A synthetic peptide corresponding to human RPE65. The sequence is C-EVKKNARKAPQPE
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Rat
<b>Purification</b>	Antigen affinity purification
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Tissue lysate), ELISA,
<b>Format</b>	Liquid
<b>Concentration</b>	0.5 mg/mL
<b>Size</b>	100 µg
<b>Buffer</b>	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
<b>Preservative</b>	0.02% Sodium Azide

**Storage**

Store at -20°C. Aliquot to avoid repeated freezing and thawing.

---

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">RPE65 retinal pigment epithelium-specific protein 65kDa [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	RPE65
<b>Synonyms</b>	RPE65; retinal pigment epithelium-specific protein 65kDa; BCO3; LCA2; RP20; rd12; mRPE65; sRPE65; retinoid isomerohydrolase; p63; retinol isomerase; BCO family, member 3; RBP-binding membrane protein; all-trans-retinyl-palmitate hydrolase; retinitis pigmentosa 20 (autosomal recessive); retinal pigment epithelium-specific 65 kDa protein;
<b>Entrez Gene ID</b>	<a href="#">6121</a>
<b>Protein Refseq</b>	<a href="#">NP_000320</a>
<b>UniProt ID</b>	<a href="#">Q16518</a>
<b>Chromosome Location</b>	1p31
<b>Pathway</b>	Disease; Retinol metabolism; Signal Transduction; Visual phototransduction
<b>Function</b>	all-trans-retinyl-ester hydrolase, 11-cis retinol forming activity; all-trans-retinyl-palmitate hydrolase, 11-cis retinol forming activity; metal ion binding; retinal isomerase activity

---