

## Product datasheet for **TA303335**

### Rpe65 Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:32,000. WB: 0.5-1.5µg/ml.
Reactivity:	Rat (Expected from sequence similarity: Human, Dog)
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide with sequence C-EVKKNARKAPQPE, from the internal region of the protein sequence according to NP_000320.1.
Formulation:	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Concentration:	lot specific
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	retinal pigment epithelium-specific protein 65
Database Link:	<a href="#">NP_446014</a> <a href="#">Entrez Gene 6121 Human</a> <a href="#">Entrez Gene 403803 Dog</a> <a href="#">Entrez Gene 89826 Rat</a> <a href="#">O70276</a>

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**Background:**

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]

**Synonyms:**

LCA2; mRPE65; p63; rd12; RP20; sRPE65

**Product images:**


TA303335 (0.5ug/ml) staining of Rat Retina lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.