

ARG64436 anti-RPE65 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes RPE65
Tested Reactivity	Rat
Predict Reactivity	Hu, Dog
Tested Application	WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	RPE65
Species	Human
Immunogen	C-EVKKNARKAPQPE
Conjugation	Un-conjugated
Alternate Names	Retinal pigment epithelium-specific 65 kDa protein; rd12; EC 3.1.1.64; LCA2; Retinol isomerase; sRPE65; RP20; BCO3; All-trans-retinyl-palmitate hydrolase; mRPE65; Retinoid isomerohydrolase

Application Instructions

Application table	Application	Dilution
	WB	0.5 - 1.5 µg/ml

Application Note
WB: Recommend incubate at RT for 1h.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 89826 Rat](#)

[Swiss-port # O70276 Rat](#)

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, Jul 2008]

Research Area

Controls and Markers antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody

Calculated Mw

61 kDa

PTM

Palmitoylation by LRAT regulates ligand binding specificity; the palmitoylated form (membrane form) specifically binds all-trans-retinyl-palmitate, while the soluble unpalmitoylated form binds all-trans-retinol (vitamin A).

Images



ARG64436 anti-RPE65 antibody WB image

Western blot: 35 µg of Rat retina lysate (in RIPA buffer) stained with ARG64436 anti-RPE65 antibody at 0.1 µg/ml dilution and incubated at RT for 1 hour.