

CRB1 Antibody

Catalog # ASC11589

Product Information

Application	WB, E
Primary Accession	P82279
Other Accession	NP_001180569 , 302370926
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	154183
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	CRB1 antibody can be used for detection of CRB1 by Western blot at 1 - 2 μ g/mL.

Additional Information

Gene ID	23418
Other Names	Protein crumbs homolog 1, CRB1
Target/Specificity	CRB1; Alternatively spliced transcript variants have been observed. CRB1 antibody is predicted to not cross-react with CRB2.
Reconstitution & Storage	CRB1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	CRB1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CRB1 (HGNC:2343)
Function	Plays a role in photoreceptor morphogenesis in the retina (By similarity). May maintain cell polarization and adhesion (By similarity).
Cellular Location	[Isoform 1]: Apical cell membrane {ECO:0000250 UniProtKB:Q8VHS2}; Single-pass type I membrane protein. Secreted. Cell projection, cilium, photoreceptor outer segment {ECO:0000250 UniProtKB:Q8VHS2} Photoreceptor inner segment {ECO:0000250 UniProtKB:Q8VHS2}
Tissue Location	Preferential expression in retina, also expressed in brain, testis, fetal brain and fetal eye (PubMed:15914641) Expressed at the outer limiting membrane and apical to adherens junctions in the retina (PubMed:15914641)

Background

CRB1 Antibody: CRB1 (Crumbs homolog 1) plays a role in photoreceptor morphogenesis in the retina. It may maintain cell polarization and adhesion. CRB1 is similar to the *Drosophila* crumbs protein and localizes to the inner segment of mammalian photoreceptors. The first identified human homolog, CRB1, is expressed in retina and some parts of the brain, leaving room for another homolog to function in epithelial tissues. Mutations in this gene are associated with a severe form of retinitis pigmentosa, RP12, and with Leber congenital amaurosis.

References

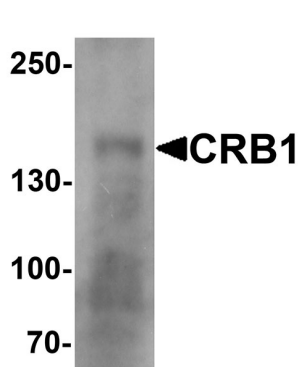
Van de Pavert SA, Kantardzhieva A, Malysheva A, et al. Crumbs homologue 1 is required for maintenance of photoreceptor cell polarization and adhesion during light exposure. *J. Cell Sci.* 2004; 117:4169-77.

Van de Pavert SA, Sanz AS, Aartsen WM, et al. Crb1 is a determinant of retinal apical Muller glia cell features. *Glia* 2007; 55:1486-97.

Den Hollander AI, Johnson K, de Kok YJ, et al. CRB1 has a cytoplasmic domain that is functionally conserved between human and *Drosophila*. *Hum. Mol. Genet.* 2001; 10:2767-73.

Bujakowska K, Audo I, Mohand-Said S, et al. CRB1 mutations in inherited retinal dystrophies. *Hum. Mutat.* 2012; 33:306-15.

Images



Western blot analysis of CRB1 in human small intestine
Tissue lysate with CRB1 antibody at 1 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.