

CRB1 Antibody
Catalog # ASC11589**Specification**

CRB1 Antibody - Product Information

| | |
|-------------------|---|
| Application | WB |
| Primary Accession | P82279 |
| Other Accession | NP_001180569 , 302370926 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Calculated MW | Predicted: 142 kDa KDa |
| Application Notes | CRB1 antibody can be used for detection of CRB1 by Western blot at 1 - 2 µg/mL. |

CRB1 Antibody - Additional InformationGene ID **23418****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.

CRB1 Antibody - Protein InformationName 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

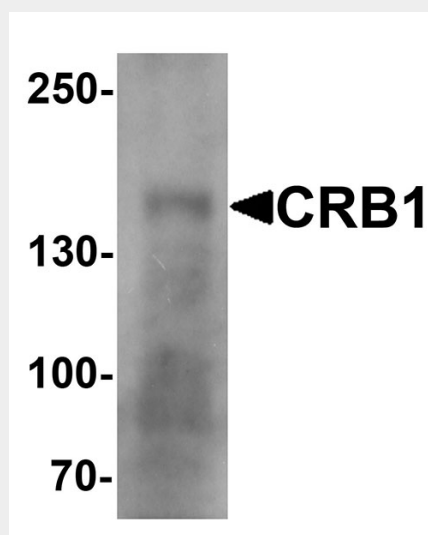
Preferential expression in retina, also expressed in brain, testis, fetal brain and fetal eye (PubMed:15914641) Expressed at the outer limiting membrane and apical to adherens junctions in the retina (PubMed:15914641)

CRB1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CRB1 Antibody - Images



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

CRB1 Antibody - 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.

CRB1 Antibody - 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.