SunLong Biotech Co.,LTD
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www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-CRB2 antibody

Catalog Number: SL14046R

FOR RESEARCH USE ONLY

[DATASHEET]

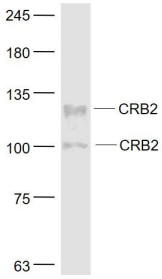
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CRB2
Immunogen:	KLH conjugated synthetic peptide derived from human CRB2: 701-800/1285 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, Rat, (predicted: Human)
Predicted MW.:	100, 123, 131kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	CRB2 is a 1,285 amino acid protein that contains three laminin G-like domains and 15 EGF-like domains and exists as multiple alternatively spliced isoforms that are either secreted or membrane bound. Expressed in kidney and retina, as well as in fetal eye and brain, CRB2 is thought to play a role in the morphogenesis of polarized cells and may be involved in DNA repair. Defects in the gene encoding CRB2 are associated with the pathogenesis of autosomal recessive retinitis pigmentosa (RP) and Leber congenital amaurosis (LCA), the former of which refers to a group of diseases that lead to the degeneration of retinal photoreceptor cells, ultimately resulting in a loss of vision. The gene encoding CRB2 maps to human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

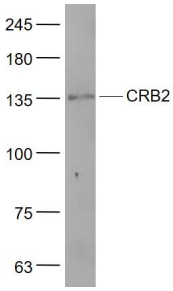
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	Function: May play a role in polarized cells morphogenesis. **Subcellular Location:** Secreted and Cell membrane. **Tissue Specificity:** Expressed in retina, fetal eye and brain. Also expressed in kidney, ARPE-19 and RPE/choroid cell lines, and at low levels in lung, placenta, and heart. **Similarity:** Belongs to the Crumbs protein family. Contains 15 EGF-like domains. Contains 3 laminin G-like domains. **Database links:** **Entrez Gene:** 286204 Human **Entrez Gene:** 241324 Mouse **Entrez Gene:** 366031 Rat Omim: 609720 Human **SwissProt:** Q5IJ48 Human **SwissProt:** Q80YA8 Mouse **Unigene:** 710092 Human

[VALIDATION IMAGES]



Sample:
Cerebrum (Mouse) Lysate at 40 ug
Primary: Anti- CRB2 (SL14046R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 100，123，131 kD
Observed band size: 100,131 kD



Sample:
Eye(Rat) Lysate at 40 ug
Primary: Anti- CRB2 (SL14046R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 100/123/131 kD
Observed band size: 135 kD

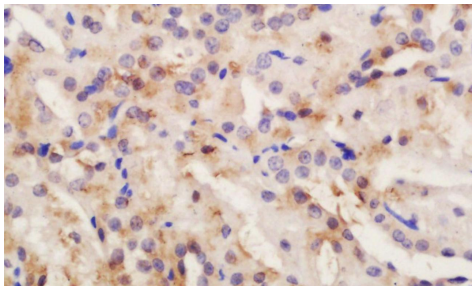
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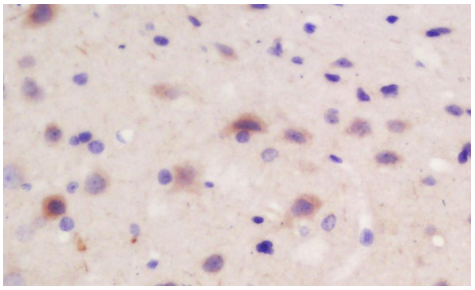
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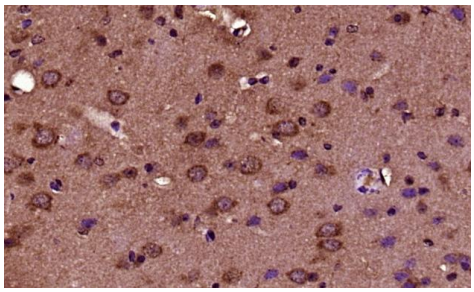
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Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-CRB2 Polyclonal Antibody, Unconjugated(SL14046R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-CRB2 Polyclonal Antibody, Unconjugated(SL14046R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CRB2) Polyclonal Antibody, Unconjugated (SL14046R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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