

ARG43054 anti-CRB1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CRB1
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CRB1
Species	Human
Immunogen	Synthetic peptide corresponding to a sequence of Human CRB1. (FRTRDANVILHAEKEPEFLNISIQDSRLFFQLQ)
Conjugation	Un-conjugated
Alternate Names	LCA8; Protein crumbs homolog 1; RP12

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

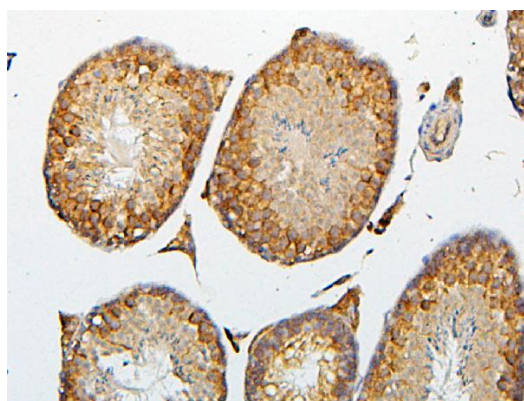
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
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.

Bioinformation

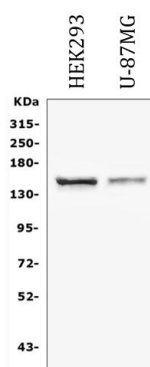
Gene Symbol	CRB1
Gene Full Name	crumbs family member 1, photoreceptor morphogenesis associated
Background	This gene encodes a protein which is similar to the Drosophila crumbs protein and localizes to the inner segment of mammalian photoreceptors. In Drosophila crumbs localizes to the stalk of the fly photoreceptor and may be a component of the molecular scaffold that controls proper development of polarity in the eye. Mutations in this gene are associated with a severe form of retinitis pigmentosa, RP12, and with Leber congenital amaurosis. Alternate splicing results in multiple transcript variants, some protein coding and some non-protein coding. [provided by RefSeq, Apr 2012]
Function	Plays a role in photoreceptor morphogenesis in the retina. May maintain cell polarization and adhesion. [UniProt]
Calculated Mw	154 kDa
PTM	Extensively glycosylated. [UniProt]
Cellular Localization	Isoform 1: Apical cell membrane; Single-pass type I membrane protein. Note=Distributed at the apical membrane of all retinal epithelial cells. Located in the apical membrane of the adherens junction in outer limiting membrane (OLM) of the retina. Isoform 2: Secreted. [UniProt]

Images



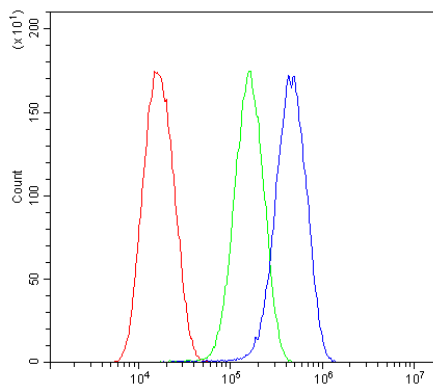
ARG43054 anti-CRB1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse testis tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43054 anti-CRB1 antibody at 1 µg/ml dilution, overnight at 4°C.



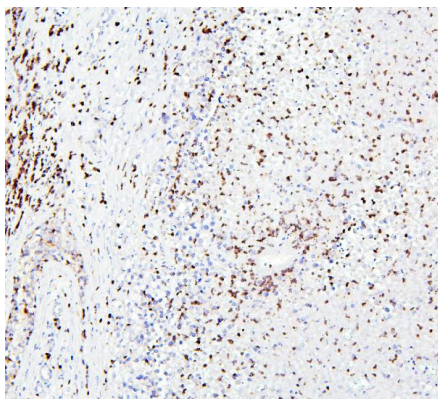
ARG43054 anti-CRB1 antibody WB image

Western blot: 50 µg of sample under reducing conditions. HEK293 and U-87MG whole cell lysates stained with ARG43054 anti-CRB1 antibody at 0.5 µg/ml dilution, overnight at 4°C.



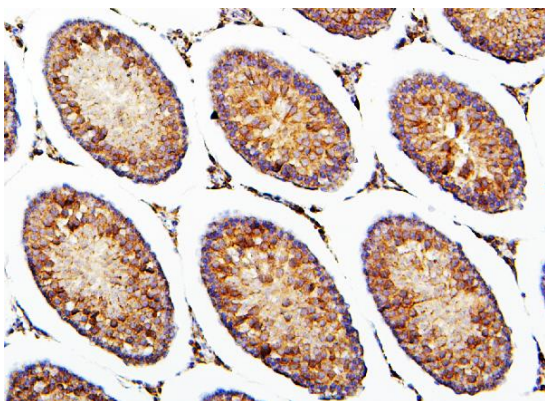
ARG43054 anti-CRB1 antibody FACS image

Flow Cytometry: U87 cells were blocked with 10% normal goat serum and then stained with ARG43054 anti-CRB1 antibody (blue) at $1\text{ }\mu\text{g}/10^6$ cells for 30 min at 20°C , followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG ($1\text{ }\mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



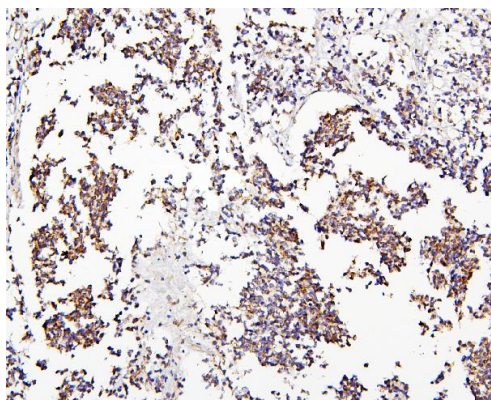
ARG43054 anti-CRB1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human testis cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43054 anti-CRB1 antibody at $1\text{ }\mu\text{g}/\text{ml}$ dilution, overnight at 4°C .



ARG43054 anti-CRB1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat testis tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43054 anti-CRB1 antibody at $1\text{ }\mu\text{g}/\text{ml}$ dilution, overnight at 4°C .



ARG43054 anti-CRB1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human glioma tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43054 anti-CRB1 antibody at $1\text{ }\mu\text{g}/\text{ml}$ dilution, overnight at 4°C .