

Rat anti-Human, Mouse CRB3 Monoclonal Antibody | anti-CRB3 antibody

CRB3 Rat Monoclonal Antibody (14F9)

CATALOG # AAA77832	HOST Rat	REACTIVITY Human, Mouse	APPLICATIONS Immunofluorescence, Immunohistochemistry, Western Blot, ELISA
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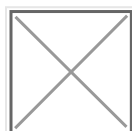
PRODUCT SYNONYMS

CRB3; Monoclonal Antibody; CRB3 Rat Monoclonal Antibody (14F9); Crumbs homologue 3; anti-CRB3 antibody

PRODUCT SPECIFICATIONS

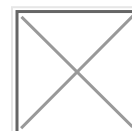
Host	Rat
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG2c
Clone Number	14F9
Specificity	The antibody recognizes the full length CRB3 protein but not the extra cellular domain of CRB3. Recognize the overexpressed human form and the endogenous form in mouse.
Form/Format	Lyophilized protein G purified in PBS pH7.4
Sequence Length	123
Applicable Applications for anti-CRB3 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Full length protein
Target	CRB3
Preservative	None
Preparation and Storage	Lyophilized antibodies can be kept at 4°C for up to 3 months and should be kept at 4°C for up to 3 months and should be kept at -20°C for long-term storage (2 years). To avoid freeze-thaw cycles, reconstituted antibodies should be aliquoted before freezing for long-term (1 year) storage (-80°C) or kept at 4°C for short-term usage (2 months). For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made with the assay buffer. After the maximum long-term storage period (2 years lyophilized or 1 year reconstituted) antibodies should be tested in your assay with a standard sample to verify if you have noticed any decrease in their efficacy.

IMAGES



IHC (Immunohistochemistry)

TOP: Immunofluorescence analysis of over expressed human CRB3 in lysates of HeLa cells. Bottom: Immunofluorescence analysis of endogenous CRB3 expression in the mouse intestine. OAPI was used to stain the nuclei in HeLa cells, where as E-cadherin staining was used to highlight the lateral membrane in mouse intestine.



WB (Western Blot)

LEFT: Western blot analysis shows that antibody recognize the full length CRB3 (GST-CRB3) but not the extracellular domain of CRB3 (GST-eRB3extra) (anti-CRB3 (14F9) was used at 1:1000) RIGHT: Western blot analysis shows that antibody recognize overexpressed (HEK293T cells) and endogenous CRB3 (mouse tissues). (antiCRB3 (14F9) was used at 1:1000).

ADDITIONAL INFORMATION

Related Product Information for anti-CRB3 antibody	CRB3 (Crumbs homologue 3) is an apical transmembrane protein member of the CRB protein family reported to be associated with tight junctions at the apical surface of epithelial cells and to play a role in apical membrane morphogenesis and tight junction regulation. The formation and maintenance of tight junctions is essential for the development of epithelial cell polarity. Two CRB3 isoforms have been described and CRB3 is homologous to the Crumb protein found in Drosophila. CRB3 contains a putative signal peptide in its first 20 amino acids, a putative extracellular site, and a transmembrane domain. The intracellular domain contains a PDZ-binding motif which is involved in the interactions of CRB3 with PARD6A and MPP5. Loss of CRB3 expression in immortal baby mouse kidney (iBMK) cells was reported to render these cells tumorigenic, suggesting an important role for CRB3 function in maintaining epithelial junction formation and apicobasal polarity required for contact-inhibited growth, and to suppress invasion and metastasis.
References	1. Loie E-CRB3A Controls the Morphology and Cohesion of Cancer Cells through Ehm2/p114RhoGEF-Dependent Signaling.

NCBI AND UNIPROT INFORMATION

NCBI GI #	37182490
NCBI GeneID	92359
NCBI Official Full Name	CRB3
NCBI Official Synonym Full Names	crumbs cell polarity complex component 3
NCBI Official Symbol	CRB3
NCBI Protein Information	protein crumbs homolog 3
UniProt Protein Name	Protein crumbs homolog 3
UniProt Gene Name	CRB3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/crb3-antibody-clone-14f9-immunofluorescence-immunohistochemistry-western-blot-elisa/77832>