

Rabbit anti-Human, mouse CRUM2 Polyclonal Antibody | anti-CRB2 antibody

CRUM2 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286646	Rabbit	Human, mouse	Western Blot, Immunohistochemistry

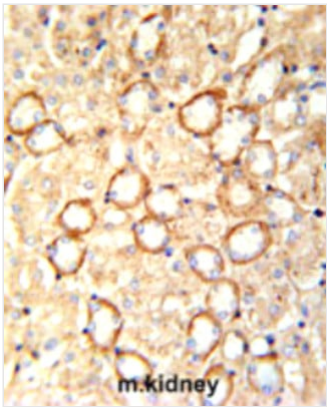
PRODUCT SYNONYMS

CRUM2; Polyclonal Antibody; CRUM2 Antibody (C-term); Protein crumbs homolog 2; Crumbs-like protein 2; CRB2; anti-CRB2 antibody

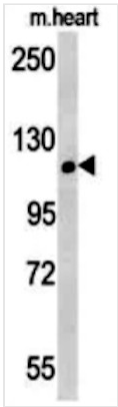
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This CRUM2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1258-1285 amino acids from the C-terminal region of human CRUM2.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	1258-1285
Sequence Length	953
Applicable Applications for anti-CRB2 antibody	WB (Western Blot), IHC (Immunohistochemistry)
Function	Apical polarity protein that plays a central role during the epithelial-to-mesenchymal transition (EMT) at gastrulation, when newly specified mesodermal cells move inside the embryo (By similarity). Acts by promoting cell ingression, the process by which cells leave the epithelial epiblast and move inside the embryo to form a new tissue layer (By similarity). The anisotropic distribution of CRB2 and MYH10/myosin-IIB at cell edges define which cells will ingress: cells with high apical CRB2 are probably extruded from the epiblast by neighboring cells with high levels of apical MYH10/myosin-IIB (By similarity). Plays a role in the maintenance of retinal neuroepithelium organization, structural integrity, adhesion, photoreceptor polarity and retinal photoreceptor layer thickness (By similarity). May play a role in determining the length of cone photoreceptor outer segments and proliferation of late-born progenitor cells (By similarity). Also required for maintenance of the apical polarity complex during development of the cortex (By similarity). Inhibits gamma-secretase- dependent cleavage of APP and secretion of amyloid-beta peptide 40 and amyloid-beta peptide 42, and thereby inhibits gamma-secretase-dependent Notch transcription (PubMed:20299451).
Cellular Location	[Isoform 1]: Apical cell membrane {ECO:0000250 UniProtKB:Q80YA8}; Single-pass type I membrane protein. Cytoplasm {ECO:0000250 UniProtKB:Q80YA8}. Cell junction {ECO:0000250 UniProtKB:Q80YA8}. Note=O-glucosylation is required for localization at the apical plasma membrane (By similarity). Distributed in a complex anisotropic pattern on apical cell edges: the level of CRB2 on a cell edge is inversely correlated with the level of MYH10/myosin-IIB (By similarity). {ECO:0000250 UniProtKB:Q80YA8}
Tissue Location	Expressed in glomeruli, podocytes of the glomerular capillary loops, and parietal glomerular epithelial cells in the kidney (at protein level) (PubMed:29473663, PubMed:27942854). Expressed in retina, fetal eye and brain (PubMed:15851977). Also expressed in kidney, RPE/choroid, and at low levels in lung, placenta, and heart (PubMed:15851977).
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)
CRUM2 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded mouse kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CRUM2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
CRUM2 Antibody (C-term) western blot analysis in mouse heart tissue lysates (15ug/lane). This demonstrates the CRUM2 antibody detected CRUM2 protein (arrow).

ADDITIONAL INFORMATION

Product Categories/Family for anti-CRB2 antibody	Cell Biology
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NCBI AND UNIPROT INFORMATION

NCBI GI #	112420992
NCBI GeneID	286204
NCBI Accession #	NP_775960.4
NCBI GenBank Nucleotide #	NM_173689.6
UniProt Accession #	Q5IJ48; Q0QD46; Q5JS41; Q5JS43; Q6ZTA9; Q6ZWI6; A2A3N4
NCBI Official Full Name	protein crumbs homolog 2
NCBI Official Synonym Full Names	crumbs family member 2
NCBI Official Symbol	CRB2
NCBI Official Synonym Symbols	FSGS9; VMCKD
NCBI Protein Information	protein crumbs homolog 2
UniProt Protein Name	Protein crumbs homolog 2
UniProt Gene Name	CRB2
UniProt Entry Name	CRUM2_HUMAN

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://www.aaabiotech.com/polyclonal/crum2-antibody-western-blot-immunohistochemistry-elisa/286646>