10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CRB3 Rabbit pAb

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Catalog # AP55396

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9BUF7
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	12854
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CRB3
Epitope Specificity	45-120/120
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Apical cell membrane. Cell junction; tight junction. Localizes primarily to the apical membrane with a small fraction in the upper part of tight junctions of epithelial cells.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the Crumbs family of proteins. This protein may play a role in epithelial cell polarity and is associated with tight junctions at the apical surface of epithelial cells. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	92359
Other Names	Protein crumbs homolog 3, CRB3 (HGNC:20237)
Target/Specificity	Preferentially expressed in epithelial tissues. Expressed at high levels in lung, kidney, retina, colon and mammary glands. Expressed at moderate levels in liver, spleen, pancreas, placenta and prostate.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CRB3 (HGNC:20237)
Function	Involved in the establishment of cell polarity in mammalian epithelial cells (PubMed:12771187, PubMed:14718572, PubMed:23439680). Regulates the morphogenesis of tight junctions (PubMed:12771187, PubMed:14718572). Involved in promoting phosphorylation and cytoplasmic retention of transcriptional coactivators YAP1 and WWTR1/TAZ which leads to suppression of TGFB1-dependent transcription of target genes such as CCN2/CTGF, SERPINE1/PAI1, SNAI1/SNAIL1 and SMAD7 (By similarity).
Cellular Location	Apical cell membrane; Single-pass type I membrane protein. Cell junction, tight junction. Note=Localizes primarily to the apical membrane with a small fraction in the upper part of tight junctions of epithelial cells.
Tissue Location	Preferentially expressed in epithelial tissues (PubMed:14718572). Expressed at high levels in lung, kidney, and colon (PubMed:12527193, PubMed:14718572). Expressed at high levels in retina, colon and mammary glands (PubMed:12527193). Moderately expressed in liver, spleen, pancreas and prostate (PubMed:12527193). Moderately to weakly expressed in the placenta (PubMed:12527193, PubMed:14718572) Weakly expressed in skeletal muscle and small intestine (PubMed:14718572).

Background

This gene encodes a member of the Crumbs family of proteins. This protein may play a role in epithelial cell polarity and is associated with tight junctions at the apical surface of epithelial cells. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]