For Research Use Only

CRB3 Polyclonal antibody

Catalog Number:12315-1-AP

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
12315-1-AP

Size:
450 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2968

GenBank Accession Number:
BC018409

GeneID (NCBI):
92359

UNIPROT ID:
Q9BUF7

Full Name:
crumbs homolog 3 (Drosophila)

Calculated MW:
123 aa, 13 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IHC 1:50-1:500

Applications

Tested Applications:
IHC,ELISA

Species Specificity:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : human pancreas tissue, human skeletal muscle tissue

Background Information

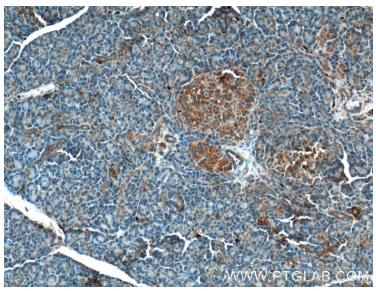
Crumbs is an apical transmembrane protein crucial for epithelial morphogenesis in Drosophila melanogaster embryos. Three isoforms of mammalian Crumbs have been identified, and two have been characterized. Crumbs1 (CRB1) is expressed primarily in the central nervous system, whereas Crumbs3 (CRB3) is mainly expressed in epithelial tissues and skeletal muscles. CRB3 is an N-glycosylated, small transmembrane protein. CRB3 has a conserved cytoplasmic domain containing the two motives GTY and ERLI found in Crumbs, but exhibits a very short extracellular domain without the EGF- and laminin A-like G repeats present in the other Crumbs. Through its cytoplasmic domain and its interactors (e.g., Pals1 and Par6), CRB3 plays a role in apical membrane morphogenesis and tight junction regulation. (PMID: 14718572; 12527193; 15976445)

Storage

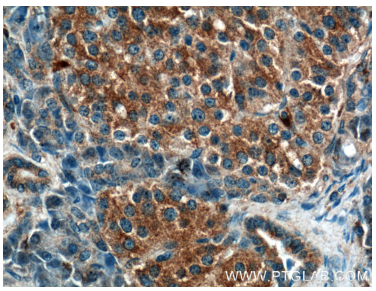
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 12315-1-AP (CRB3 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 12315-1-AP (CRB3 Antibody) at dilution of 1:200 (under 40x lens).