

DOC2B Rabbit pAb

DOC2B Rabbit pAb

Catalog # AP55559

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q14184
Reactivity	Rat, Mouse
Predicted	Human, Chicken, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45922
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DOC2B
Epitope Specificity	281-380/412
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	Cytoplasm. Cytoplasmic granule. Cell membrane. Translocates to the plasma membrane in a calcium-dependent manner.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	There are at least two protein isoforms of the Double C2 protein, namely alpha (DOC2A) and beta (DOC2B), which contain two C2-like domains. DOC2A and DOC2B are encoded by different genes; these genes are at times confused with the unrelated DAB2 gene which was initially named DOC-2. DOC2B is expressed ubiquitously and is suggested to be involved in Ca(2+)-dependent intracellular vesicle trafficking in various types of cells. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	8447
Other Names	Double C2-like domain-containing protein beta, Doc2-beta, DOC2B (HGNC:2986)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

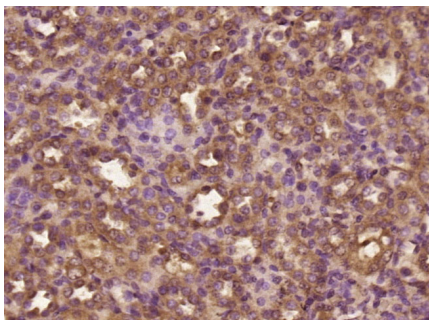
Protein Information

Name	DOC2B (HGNC:2986)
Function	Calcium sensor which positively regulates SNARE-dependent fusion of vesicles with membranes. Binds phospholipids in a calcium- dependent manner and may act at the priming stage of fusion by modifying membrane curvature to stimulate fusion. Involved in calcium- triggered exocytosis in chromaffin cells and calcium-dependent spontaneous release of neurotransmitter in absence of action potentials in neuronal cells. Involved both in glucose-stimulated insulin secretion in pancreatic cells and insulin-dependent GLUT4 transport to the plasma membrane in adipocytes (By similarity).
Cellular Location	Cytoplasm. Cytoplasmic granule. Cell membrane; Peripheral membrane protein Note=Translocates to the plasma membrane in a calcium-dependent manner
Tissue Location	Widely expressed with highest levels in brain and kidney. Expressed in pancreatic islet cells (at protein level)

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Images



Paraformaldehyde-fixed, paraffin embedded (rat kidney tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DOC2B) Polyclonal Antibody, Unconjugated (AP55559) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.