

Rabbit Anti-DOC2B/AP Conjugated antibody

SL14402R-AP

Product Name	Anti-DOC2B/AP
Chinese Name	碱性磷酸酶 (AP) 标记的 DOC2B 蛋白抗体
Alias	Doc2 beta; Doc2-beta; Doc2b; DOC2B_HUMAN; DOC2BL; Double C2 like domain containing protein beta; Double C2 like domains beta; Double C2 like domains beta like; Double C2-like domain-containing protein beta; OTTMUSP00000006522; RP23 78H4.2.
Research Area	Cell biology Neurobiology Signal transduction Transporter
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse,Rat(predicted:Human,Chicken,Cow,Horse,Sheep) IHC-P=1:100-500,IHC-F=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	46kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human DOC2B
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	background: 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]

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).

Subcellular Location:

Cytoplasm. Cytoplasmic granule. Cell membrane. Translocates to the plasma membrane in a calcium-dependent manner.

Tissue Specificity:

Widely expressed with highest levels in brain and kidney. Expressed in pancreatic islet cells (at protein level).

Similarity:

Contains 2 C2 domains.

Database links:

[Entrez Gene: 8447](#) Human

[Entrez Gene: 13447](#) Mouse

[Entrez Gene: 81820](#) Rat

[Omim: 604568](#) Human

[SwissProt: Q14184](#) Human

[SwissProt: P70169](#) Mouse

[SwissProt: P70610](#) Rat

[Unigene: 551705](#) Human

[Unigene: 5137](#) Mouse



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[Unigene: 10689](#) Rat

Important Note:

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