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[Marker Primary Antibody]

Rabbit Anti-DOC2B/Biotin Conjugated antibody

Catalog Number: SL14402R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-DOC2B/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human DOC2B
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	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.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Chicken,Cow,Horse,Sheep)
Background:	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

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	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 **Unigene:** 10689 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.