

DOC2A (aa233-246) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3634a**Specification**

DOC2A (aa233-246) Antibody (internal region) - Product Information

Application	E
Primary Accession	Q14183
Other Accession	NP_003577.2 , 8448 , 13446 (mouse) , 65031 (rat)
Predicted Host	Human, Mouse, Rat, Dog, Cow
Clonality	Goat
Concentration	Polyclonal
Isotype	0.5 mg/ml
Calculated MW	IgG
	43959

DOC2A (aa233-246) Antibody (internal region) - Additional Information**Gene ID** 8448**Other Names**

Double C2-like domain-containing protein alpha, Doc2, Doc2-alpha, DOC2A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

DOC2A (aa233-246) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

DOC2A (aa233-246) Antibody (internal region) - Protein Information**Name** DOC2A**Function**

Calcium sensor which most probably regulates fusion of vesicles with membranes. Binds calcium and phospholipids. May be involved in calcium dependent neurotransmitter release through the interaction with UNC13A. May be involved in calcium-dependent spontaneous release of neurotransmitter in absence of action potentials in neuronal cells. Regulates Ca(2+)-dependent secretory lysosome exocytosis in mast cells.

Cellular Location

Lysosome. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Peripheral membrane protein. Synapse, synaptosome

Tissue Location

Predominantly expressed in brain. Also expressed in testis.

DOC2A (aa233-246) Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DOC2A (aa233-246) Antibody (internal region) - Images**DOC2A (aa233-246) Antibody (internal region) - References**

Doc2 alpha and Munc13-4 regulate Ca(2+) -dependent secretory lysosome exocytosis in mast cells. Higashio H, Nishimura N, Ishizaki H, Miyoshi J, Orita S, Sakane A, Sasaki T. J Immunol. 2008 Apr 1;180(7):4774-84. PMID: 18354201