

**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 | <a href="#">Q14183</a>                                                                                           |
| Other Accession   | <a href="#">NP_003577.2</a> , <a href="#">8448</a> , <a href="#">13446 (mouse)</a> , <a href="#">65031 (rat)</a> |
| Predicted Host    | Human, Mouse, Rat, Dog                                                                                           |
| 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

**Dilution**

E~~N/A

**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