

**DOC2A Antibody (aa233-246)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS16814****Specification**

---

**DOC2A Antibody (aa233-246) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC                    |
| Primary Accession | <a href="#">Q14183</a> |
| Other Accession   | <a href="#">8448</a>   |
| Reactivity        | Human                  |
| Host              | Goat                   |
| Clonality         | Polyclonal             |
| Calculated MW     | 43959                  |

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

DOC2A, DOC2, Doc2-alpha, Double C2-like domains, alpha

**Target/Specificity**

Human DOC2A.

**Reconstitution & Storage**

Tris-buffered saline, pH 7.3, 0.5% BSA, 0.02% sodium azide. Store at -20°C. Minimize freezing and thawing.

**Precautions**

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

**DOC2A Antibody (aa233-246) - 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**

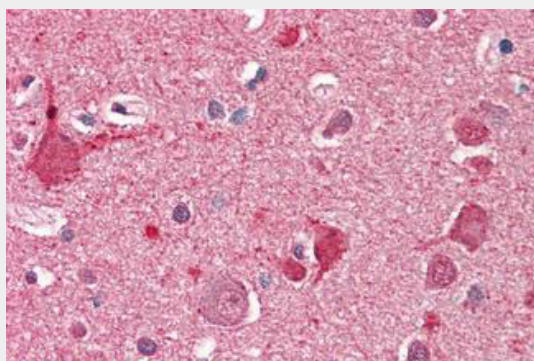
Predominantly expressed in brain. Also expressed in testis.

### **DOC2A Antibody (aa233-246) - 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 Antibody (aa233-246) - Images**



Anti-DOC2A antibody IHC staining of human brain, cortex.

### **DOC2A Antibody (aa233-246) - Background**

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  $\text{Ca}^{2+}$ -dependent secretory lysosome exocytosis in mast cells.

### **DOC2A Antibody (aa233-246) - References**

- Orita S., et al. Biochem. Biophys. Res. Commun. 206:439-448(1995).  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
Martin J., et al. Nature 432:988-994(2004).  
Sakaguchi G., et al. Biochem. Biophys. Res. Commun. 217:1053-1061(1995).  
Mochida S., et al. Proc. Natl. Acad. Sci. U.S.A. 95:11418-11422(1998).