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## Anti-Human Synaptophysin Alexa Fluor<sup>®</sup> 647 (To Be Discontinued. Refer to Cat. No 50-6525)

**Catalog Number:** 51-6525

**Also known as:** Major Synaptic Vesicle Protein p38

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

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### Product Information

**Contents:** Anti-Human Synaptophysin Alexa Fluor<sup>®</sup> 647 (To Be Discontinued. Refer to Cat. No 50-6525)

 **Catalog Number:** 51-6525

**Clone:** EP10

**Concentration:** 0.2 mg/mL

**Host/Isotype:** Mouse IgG1

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial







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### Description

This EP10 monoclonal antibody reacts with human Synaptophysin, which is also known as Major Synaptic Vesicle Protein p38. This 38-kDa integral membrane protein is expressed on neuronal presynaptic vesicles in the brain, spinal cord, retina, neuromuscular junctions, and adrenal medulla. Synaptophysin is also expressed in neuroendocrine tumors and neuroblastomas. Synaptophysin has been reported to play a role in synaptic vesicle trafficking.

### Applications Reported

This EP10 antibody has been reported for use in immunohistochemical staining of formalin-fixed paraffin embedded tissue sections and immunocytochemistry (ICC).

### Applications Tested

This EP10 antibody has been tested by immunohistochemistry on formalin fixed paraffin embedded human cerebellum using citrate buffer antigen retrieval at less than or equal to 10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Arthur CP, Stowell MH. Structure of synaptophysin: a hexameric MARVEL-domain channel protein. *Structure*. 2007 Jun;15(6):707-14.

Honer WG, Kaufmann CA, Davies P. Characterization of a synaptic antigen of interest in neuropsychiatric illness. *Biol Psychiatry*. 1992 Jan 15;31(2):147-58. (**EP10**, ICC)

Südhof TC, Lottspeich F, Greengard P, Mehl E, Jahn R. A synaptic vesicle protein with a novel cytoplasmic domain and four transmembrane regions. *Science*. 1987 Nov 20;238(4830):1142-4.

Wiedenmann B, Franke WW. Identification and localization of synaptophysin, an integral membrane glycoprotein of Mr 38,000 characteristic of presynaptic vesicles. *Cell*. 1985 Jul;41(3):1017-28.

### Related Products

51-4714 Mouse IgG1 K Isotype Control Alexa Fluor<sup>®</sup> 647 (To Be Discontinued. Refer to Cat. No. 50-4714) (P3.6.2.8.1)

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