

**SYNGR2 Antibody**  
**Catalog # ASC11047****Specification**

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**SYNGR2 Antibody - Product Information**

|                   |   |
|-------------------|---|
| Application       | WB, IHC, IF   |
| Primary Accession | <a href="#">O43760</a>  |
| Other Accession   | <a href="#">AAI05993</a> , <a href="#">77415432</a>   |
| Reactivity        | Human, Rat  |
| Host              | Rabbit  |
| Clonality         | Polyclonal  |
| Isotype           | IgG   |
| Application Notes | SYNGR2 antibody can be used for detection of SYNGR2 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL. |

**SYNGR2 Antibody - Additional Information**

|                           |      |
|---------------------------|------|
| Gene ID                   | 9144 |
| <b>Target/Specificity</b> |      |
| SYNGR2;                   |      |

**Reconstitution & Storage**

SYNGR2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

SYNGR2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**SYNGR2 Antibody - Protein Information**

**Name** SYNGR2 ([HGNC:11499](#))

**Function**

May play a role in regulated exocytosis. In neuronal cells, modulates the localization of synaptophysin/SYP into synaptic-like microvesicles and may therefore play a role in the formation and/or the maturation of this vesicles. May also play a role in GLUT4 storage and transport to the plasma membrane.

**Cellular Location**

Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:O54980}; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:O54980}; Multi-pass membrane protein. Note=Localizes to cytoplasmic vesicles associated with the recycling endosomes. {ECO:0000250|UniProtKB:O54980}

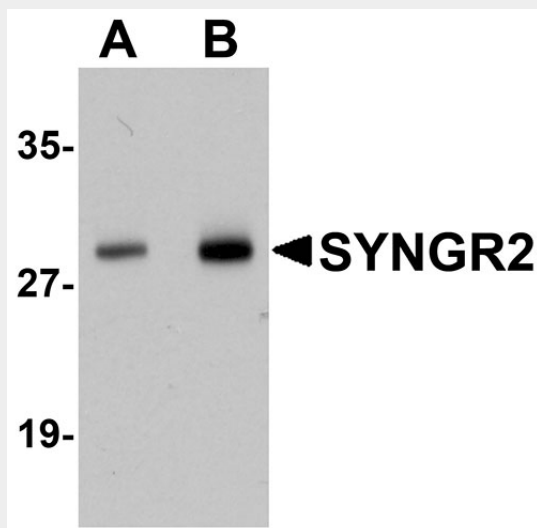
**Tissue Location**

Ubiquitous; low expression in brain.

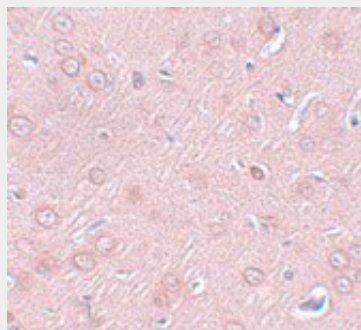
**SYNGR2 Antibody - Protocols**

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

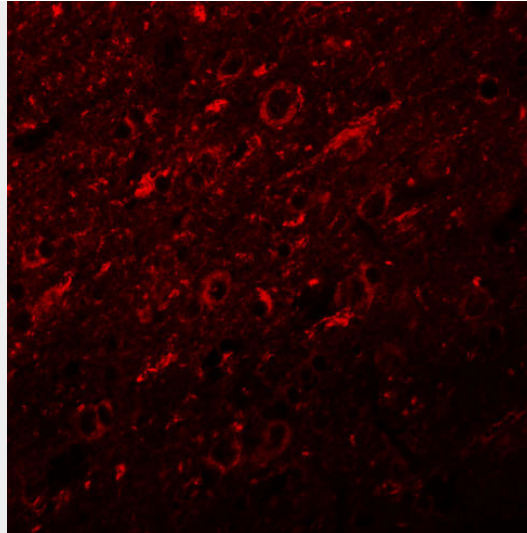
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SYNGR2 Antibody - Images**

Western blot analysis of SYNGR2 in human lung tissue lysate with SYNGR2 antibody at (A) 1 and (B) 2  $\mu$ g/mL.



Immunohistochemistry of SYNGR2 in rat brain tissue with SYNGR2 antibody at 2.5  $\mu$ g/mL.



Immunofluorescence of SYNGR2 in rat brain tissue with SYNGR2 antibody at 20 µg/mL.

### **SYNGR2 Antibody - Background**

SYNGR2 Antibody: Synaptogyrins comprise a family of tyrosine-phosphorylated membrane proteins with two neuronal (SYNGR1 and SYNGR3) and one ubiquitous (SYNGR2) members. SYNGR1 and -3 are synaptic vesicle proteins, residing in some cases on the same synaptic vesicle, and are thought to be involved in the regulation of neurotransmitter release. SYNGR2, by contrast, is absent from synaptic vesicles. The role and localization of a fourth synaptogyrin, SYNGR4, is unclear. SYNGR3 is predominantly expressed in brain and placenta. The exact function of SYNGR2 is unknown, but studies suggest that it may play a role in regulating membrane traffic in non-neuronal cells.

### **SYNGR2 Antibody - References**

Belizaire R, Komanduri C, Wooten K, et al. Characterization of synaptogyrin 3 as a new synaptic vesicle protein. J. Comp. Neurol.2004; 470:266-81.  
Kedra D, Pan HQ, Seroussi E, et al. Characterization of the human synaptogyrin gene family. Hum. Genet.1998; 103:131-41.