

## SNAP 47

Cat.No. 111 403; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

### Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 up to 1 : 5000 (AP staining) <b>IP:</b> yes <b>ICC:</b> yes <b>IHC:</b> yes <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Recombinant protein corresponding to AA 1 to 419 from rat SNAP47 (UniProt Id: Q6P6S0)
Reactivity	Reacts with: rat (Q6P6S0), mouse (Q8R570). No signal: zebrafish. Other species not tested yet.
Specificity	Specific for SNAP 47.

**TO BE USED IN VITRO / FOR RESEARCH ONLY**  
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

The membrane bound protein **SNAP 47** is abundantly expressed in different tissues. The highest protein levels have been observed in brain. Like its closest relative SNAP 29 it lacks a membrane anchor and the mechanism which mediates the membrane localization is still under investigation. SNAP 47 co-purifies with synaptic vesicles but shows a staining pattern different from typical synaptic vesicle markers like synapsin or synaptophysin. SNAP 47 may be localized to a vesicle-pool which has not been confined to a special organelle but accumulates in the periphery of the trans-Golgi-network.

### Selected References SYSY Antibodies

- Identification of SNAP-47, a novel Qbc-SNARE with ubiquitous expression.  
Holt M, Varoqueaux F, Wiederhold K, Takamori S, Urlaub H, Fasshauer D, Jahn R  
The Journal of biological chemistry (2006) 281(25): 17076-83. **WB, ICC**
- Proteomic screening of glutamatergic mouse brain synaptosomes isolated by fluorescence activated sorting.  
Biesemann C, Grønberg M, Luquet E, Wichert SP, Bernard V, Bungers SR, Cooper B, Varoqueaux F, Li L, Byrne JA, Urlaub H, et al.  
The EMBO journal (2014) 33(2): 157-70. **WB; tested species: mouse**
- The SNARE protein vti1a functions in dense-core vesicle biogenesis.  
Walter AM, Kurps J, de Wit H, Schöning S, Toft-Bertelsen TL, Lauks J, Ziomkiewicz I, Weiss AN, Schulz A, Fischer von Mollard G, Verhage M, et al.  
The EMBO journal (2014) 33(15): 1681-97. **WB; tested species: mouse**
- Small-scale isolation of synaptic vesicles from mammalian brain.  
Ahmed S, Holt M, Riedel D, Jahn R  
Nature protocols (2013) 8(5): 998-1009. **WB; tested species: mouse**

### Selected General References

- The SNARE protein vti1a functions in dense-core vesicle biogenesis.  
Walter AM, Kurps J, de Wit H, Schöning S, Toft-Bertelsen TL, Lauks J, Ziomkiewicz I, Weiss AN, Schulz A, Fischer von Mollard G, Verhage M, et al.  
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