

γ SNAP

Cat.No. 112 303; 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 ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 500 up to 1 : 2000 (AP staining) IP: yes ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Synthetic peptide corresponding to AA 2 to 18 from rat γSNAP (UniProt Id: Q9CWZ7)
Reactivity	Reacts with: human (Q99747), rat, mouse (Q9CWZ7), cow. No signal: zebrafish. Other species not tested yet.
Specificity	Specific for γ SNAP.
matching control	112-3P

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

The proteins **α/β-SNAP** are two related soluble and highly conserved proteins that bind to the fusion complex (SNARE complex), thus allowing the N-ethylmaleimide sensitive fusion protein NSF to bind to the complex. **γ-SNAP** binds directly to NSF and Gaf-1/Rip11, a protein of the Rab11 interacting family. In contrast to α/β-SNAP it does not interact directly with SNARE proteins and is not required for ER-Golgi transport. SNAP-proteins are abundantly expressed in all tissues. They are partially soluble, partially membrane-bound.

Selected References SYSY Antibodies

SNARE protein recycling by αSNAP and βSNAP supports synaptic vesicle priming.
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Neuron (2010) 68(3): 473-87. **WB**

Cortical Granule Exocytosis Is Mediated by Alpha-SNAP and N-Ethylmaleimide Sensitive Factor in Mouse Oocytes.
de Paola M, Bello OD, Michaut MA
PloS one (2015) 10(8): e0135679. **WB**

Selected General References

Mapping of functional domains of gamma-SNAP.
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The Journal of biological chemistry (2003) 278(15): 13531-8.

Mechanisms of synaptic vesicle exocytosis.
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Membrane fusion and exocytosis.
Jahn R, Südhof TC
Annual review of biochemistry (1999) 68: 863-911.

Alpha-SNAP but not gamma-SNAP is required for ER-Golgi transport after vesicle budding and the Rab1-requiring step but before the EGTA-sensitive step.
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