

Syntaxin 12/13

Cat.No. 110 131; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: 1 : 100 up to 1 : 500 IHC: not tested yet IHC-P/FFPE: not tested yet
Clone	151.2
Subtype	IgG1 (κ light chain)
Immunogen	Recombinant protein corresponding to AA 1 to 250 from rat Syntaxin12/13 (UniProt Id: G3V7P1)
Reactivity	Reacts with: rat (G3V7P1). No signal: zebrafish, mouse (Q9ER00). Other species not tested yet.
Specificity	Specific for syntaxin 12/13.
matching control	110-13P

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

Syntaxin 12/13 are orthologues of the same gene whose product is a member of the SNARE family of proteins. It is related to syntaxins 1-4 but is localized predominantly to early endosomes of a wide variety of cells. Syntaxin 12/13 appears to be involved in the recycling of membrane receptors such as the transferrin receptors where it mediates the fusion of endosomal membranes.

Selected References SYSY Antibodies

Enhanced recruitment of endosomal Na⁺/H⁺ exchanger NHE6 into Dendritic spines of hippocampal pyramidal neurons during NMDA receptor-dependent long-term potentiation.
Deane EC, Ilie AE, Sizzdahkhani S, Das Gupta M, Orlowski J, McKinney RA
The Journal of neuroscience : the official journal of the Society for Neuroscience (2013) 33(2): 595-610. **ICC**

Activity-Dependent Ubiquitination of GluA1 and GluA2 Regulates AMPA Receptor Intracellular Sorting and Degradation.
Widagdo J, Chai YJ, Ridder MC, Chau YQ, Johnson RC, Sah P, Hugarir RL, Anggono V
Cell reports (2015) : . **ICC**

Composition of isolated synaptic boutons reveals the amounts of vesicle trafficking proteins.
Wilhelm BG, Mandad S, Truckenbrodt S, Kröhnert K, Schäfer C, Rammner B, Koo SJ, Claßen GA, Krauss M, Haucke V, Urlaub H, et al.
Science (New York, N.Y.) (2014) 344(6187): 1023-8. **ICC; tested species: rat**

A new probe for super-resolution imaging of membranes elucidates trafficking pathways.
Revelo NH, Kamin D, Truckenbrodt S, Wong AB, Reuter-Jessen K, Reisinger E, Moser T, Rizzoli SO
The Journal of cell biology (2014) 205(4): 591-606. **ICC**

Selected General References

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The EMBO journal (2000) 19(23): 6453-64.

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

Seven novel mammalian SNARE proteins localize to distinct membrane compartments.
Advani RJ, Bae HR, Bock JB, Chao DS, Doung YC, Prekeris R, Yoo JS, Scheller RH
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The Journal of cell biology (1998) 143(4): 957-71.