Synaptic Systems

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GOSR 1

Cat.No. 179-0P; control protein, 100 µg protein (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg protein, lyophilized. For reconstitution add 100 µl H_2O to get a 1mg/ml solution in TBS. Then aliquot and store at -20°C until use.
Immunogen	Recombinant protein corresponding to AA 2 to 155 from rat GOSR1 (UniProt Id: Q62931)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	179 002, 179 003
Remarks	This control protein consists of the recombinant protein (aa 2 - 155 of rat GOSR 1) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of protein needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

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

GOSR 1 also known as **GOS 28** and **GS 28** is a 28 kDa membrane protein on the surface of the Golgi compartment. It has been shown to serve as a vSNARE in ER to Golgi transport.
In co-immunoprecipitation studies GOSR 1 was identified as a member of a SNARE complex consisting of syntaxin 5, membrin (GS 27 GOSR 2, GOS 27), rbet1 and rsec22. A more detailed analysis revealed two subcomplexes within this complex. One contains syntaxin 5 (mainly the shorter 35 kDa variant) and GOSR 1 whereas the other is composed of syntaxin 5 (35 and 42 kDa variant), membrin, rsec22 and rbet1.
It has been suggested that theses complexes mediate the fusion of ER-derived vesicles with vesicular tubular clusters (VTC), and the fusion of VTCs to form the cis-Golgi compartment.

Selected General References

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