

RIM₂

Rudolf-Wissell-Str. 28 37079 Göttingen, Germany

Phone: +49 551-50556-0
Fax: +49 551-50556-384
E-mail: sales@sysy.com
Web: www.sysy.com

Cat.No. 140-03P; control protein, 100 µg protein (lyophilized)

Data Sheet

Reconstitution/ Storage	100 μg protein, lyophilized. For reconstitution add 100 μl H ₂ O to get a 1mg/ml solution in TBS. Then aliquot and store at -20°C until use.
Immunogen	Recombinant protein corresponding to AA 909 to 1076 from rat RIM2-4C (UniProt Id: Q9JIS1-3)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	140 303
Remarks	This control protein consists of the recombinant protein (aa 909 - 1076 of rat RIM 2) 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

RIMs are presynaptic active zone proteins that regulate Ca^{2+} triggered release of neurotransmitters. RIM 1 α and RIM 2 α are composed of an N-terminal zinc-finger domain, a central PDZ domain and two C-terminal C2 domains that are seperated by long alternatively spliced sequences. RIM 2 β consists of a specific N-terminus, the central PDZ domain and the C-terminal C2 domains. The mRNA for RIM 2 β is transcribed from an internal promoter of the RIM 2 α gene. Shorter variants of RIM 2 which comprise only the C-terminal C_2B domain and some flanking regions are referred to as NIM 2 / RIM 2 γ and NIM 3 / RIM 3 γ .

Selected General References

Genomic definition of RIM proteins: evolutionary amplification of a family of synaptic regulatory proteins. Wang Y, Südhof TC

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The RIM/NIM family of neuronal C2 domain proteins. Interactions with Rab3 and a new class of Src homology 3 domain proteins. Wang Y, Sugita S, Sudhof TC

The Journal of biological chemistry (2000) 275(26): 20033-44.