

RIM₁

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. 140 023; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	$50~\mu g$ specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add $50~\mu l~H_2O$ to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1: 1000 (AP staining) (see remarks) IP: not tested yet ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Recombinant protein corresponding to AA 955 to 1056 from rat Rim1 (UniProt Id: Q9JIR4)
Reactivity	Reacts with: rat (Q9JIR4), mouse (Q99NE5). Other species not tested yet.
Specificity	Specific for RIM 1, no cross reactivity to RIM 2.
matching control	140-02P
Remarks	WB : This antibody is recommended.

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 1 α is a putative Rab 3a effector and has been shown to interact with other active zone proteins like Munc13-1, ERC 1b, ERC 2 and α -liprins. Deletion of RIM 1 α in mice impaired neurotransmitter release without changing the structure of the synapse.

Selected References SYSY Antibodies

Ethanol Mediated Inhibition of Synaptic Vesicle Recycling at Amygdala Glutamate Synapses Is Dependent upon Munc13-2. Gioia DA, Alexander N, McCool BA

Frontiers in neuroscience (2017) 11: 424. WB; tested species: mouse

Selected General References

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