

RIM-BP 1

Cat.No. 316 003; 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 : 1000 (AP staining) IP: not tested yet ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Recombinant protein corresponding to AA 1 to 335 from mouse RIM-BP1 (UniProt Id: Q7TNF8)
Reactivity	Reacts with: rat (Q9JIR0), mouse (Q7TNF8). Other species not tested yet.
Specificity	Specific for RIM-BP 1. (K.O. verified)

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

RIM-BP 1, the benzodiazepine receptor associated protein 1 (**BZRAP 1**), and **RIM-BP 2** have been identified as RIM interaction partner and are supposed to form the active zone core complex with RIM, Munc-13, liprin-α and ELKS.
Like RIM and Munc-13, RIM-BPs are multidomain proteins composed of a string of identifiable modules like SH3 or fibronectin type III repeats. Several splice variants for RIM-BPs have been described. .

Selected References SYSY Antibodies

Fusion Competent Synaptic Vesicles Persist upon Active Zone Disruption and Loss of Vesicle Docking.
Wang SSH, Held RG, Wong MY, Liu C, Karakhanyan A, Kaeser PS
Neuron (2016) 91(4): 777-791. **WB, ICC**

PRRT2 Is a Key Component of the Ca(2+)-Dependent Neurotransmitter Release Machinery.
Valente P, Castroflorio E, Rossi P, Fadda M, Sterlini B, Cervigni RI, Prestigio C, Giovedi S, Onofri F, Mura E, Guarnieri FC, et al.
Cell reports (2016) 15(1): 117-31. **IP**

How to Make an Active Zone: Unexpected Universal Functional Redundancy between RIMs and RIM-BPs.

Acuna C, Liu X, Südhof TC
Neuron (2016) 91(4): 792-807. **WB; KO verified**

RIM-binding protein 2 regulates release probability by fine-tuning calcium channel localization at murine hippocampal synapses.
Grauel MK, Maglione M, Reddy-Alla S, Willmes CG, Brockmann MM, Trimbuch T, Rosenmund T, Pangalos M, Vardar G, Stumpf A, Walter AM, et al.
Proceedings of the National Academy of Sciences of the United States of America (2016) 113(41): 11615-11620. **WB; tested species: mouse**

Selected General References

The presynaptic active zone.
Südhof TC
Neuron (2012) 75(1): 11-25.

Structure and evolution of RIM-BP genes: identification of a novel family member.
Mittelstaedt T, Schoch S
Gene (2007) 403(1-2): 70-9.

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