

Piccolo

Cat.No. 142 003; 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 up to 1 : 5000 (ECL detection) (see remarks) IP: not tested yet ICC: 1 : 200 up to 1 : 500 IHC: 1 : 500 IHC-P/FFPE: not tested yet
Immunogen	Recombinant protein corresponding to AA 4439 to 4776 from rat Piccolo (UniProt Id: Q9JKS6)
Reactivity	Reacts with: rat (Q9JKS6), mouse (Q9QYX7). Other species not tested yet.
Specificity	Specific for piccolo. (K.O. verified)
matching control	142-0P
Remarks	WB: Due to its large size, piccolo requires special gel-electrophoresis and Western blot protocols for visualization by immunoblotting. Excellent results can be obtained with the 4-12% TRIS-glycine gradient gels of anamed.

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

Piccolo, also referred to as **Aczonin**, is a large protein which consists of an N-terminal Zn²⁺ finger, several piccolo-bassoon homology domains (PBH-domains) and C-terminal PDZ and C2 domains. In general it is found together with bassoon, a related huge multi-domain protein of the CAZ (cytoskeletal matrix assembled at active zones). Piccolo is supposed to be a scaffolding protein for proteins involved in endo- and exocytosis of synaptic vesicles. Recently piccolo has been shown to interfere with clathrin mediated endocytosis by binding to the F-actin and dynamin binding protein Abp1.

Selected References SYSY Antibodies

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- 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**
- Reduced SNAP-25 increases PSD-95 mobility and impairs spine morphogenesis. Fossati G, Morini R, Corradini I, Antonucci F, Trepte P, Edry E, Sharma V, Papale A, Pozzi D, Defilippi P, Meier JC, et al. *Cell death and differentiation* (2015) 22(9): 1425-36. **ICC**
- Bassoon-disruption slows vesicle replenishment and induces homeostatic plasticity at a CNS synapse. Mendoza Schulz A, Jing Z, Sánchez Caro JM, Wetzel F, Dresbach T, Strenke N, Wichmann C, Moser T *The EMBO journal* (2014) 33(5): 512-27. **IHC**
- LKB1 and AMPK regulate synaptic remodeling in old age. Samuel MA, Voinescu PE, Lilley BN, de Cabo R, Foretz M, Viollet B, Pawlyk B, Sandberg MA, Vavvas DG, Sanes JR *Nature neuroscience* (2014) 17(9): 1190-7. **IHC; tested species: mouse**
- Neuronal profilin isoforms are addressed by different signalling pathways. Murk K, Wittenmayer N, Michaelsen-Preusse K, Dresbach T, Schoenenberger CA, Korte M, Jockusch BM, Rothkegel M *PLoS one* (2012) 7(3): e34167. **ICC; tested species: mouse, rat**
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- Superresolution imaging of chemical synapses in the brain. Dani A, Huang B, Bergan J, Dulac C, Zhuang X *Neuron* (2010) 68(5): 843-56. **IHC; tested species: mouse**
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- ### Selected General References
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