

Piccolo

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Interactions between Piccolo and the actin/dynamin-binding protein Abp1 link vesicle endocytosis to presynaptic active zones. Fenster SD, Kessels MM, Qualmann B, Chung WJ, Nash J, Gundelfinger ED, Garner CC

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Selected General References

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Unitary assembly of presynaptic active zones from Piccolo-Bassoon transport vesicles.

Shapira M, Zhai RG, Dresbach T, Bresler T, Torres VI, Gundelfinger ED, Ziv NE, Garner CC

The Journal of comparative neurology (2001) 439(2): 224-34.

An unusual C(2)-domain in the active-zone protein piccolo: implications for Ca(2+) regulation of neurotransmitter release. Gerber SH. Garcia J. Rizo J. Südhof TC

The EMBO journal (2001) 20(7): 1605-19.

Piccolo, a presynaptic zinc finger protein structurally related to bassoon.

Fenster SD, Chung WJ, Zhai R, Cases-Langhoff C, Voss B, Garner AM, Kaempf U, Kindler S, Gundelfinger ED, Garner CC Neuron (2000) 25(1): 203-14.

Piccolo, a novel 420 kDa protein associated with the presynaptic cytomatrix.

Cases-Langhoff C, Voss B, Garner AM, Appeltauer U, Takei K, Kindler S, Veh RW, De Camilli P, Gundelfinger ED, Garner CC European journal of cell biology (1996) 69(3): 214-23.

Gene structure and genetic localization of the PCLO gene encoding the presynaptic active zone protein Piccolo. Fenster SD. Garner CC

International journal of developmental neuroscience: the official journal of the International Society for Developmental Neuroscience () 20(3-5): 161-71.

Cat.No. 142 116; Polyclonal chicken antibody, 200 µl antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	200 μl antibody, lyophilized. For reconstitution add 200 μl H_2O , then aliquot and store at -20°C until use.
Applications	WB: not recommended IP: not tested yet ICC: 1: 500 up to 1: 1000 IHC: 1: 500 IHC-P/FFPE: 1: 500
Immunogen	Recombinant protein corresponding to AA 2012 to 2351 from rat Piccolo (UniProt Id: Q9JKS6)
Reactivity	Reacts with: rat (Q9JKS6), mouse (Q9QYX7). Other species not tested yet.
Specificity	Specific for piccolo.

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 constists of an N-terminal Zn^{2+} 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 matric 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.