



Rabbit Anti-Piccolo antibody

SL11354R

Product Name:	Piccolo
Chinese Name:	神经细胞突触蛋白PCLO抗体
Alias:	ACZ; Aczonin; Brain-derived HLMN protein; DKFZp779G1236; KIAA0559; Multidomain presynaptic cytomatrix protein; PCLO; PCLO_HUMAN; Piccolo (presynaptic cytomatrix protein); Piccolo, mouse, homolog of antibody Pico; Presynaptic cytomatrix protein; Protein piccolo.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,
Applications:	ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	557kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Piccolo:4951-5056/5056
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Piccolo is 1 component of the presynaptic cytomatrix. Bassoon is a large protein which is also found in the presynaptic compartments of rat brain synapses. Bassoon, along with Piccolo, is part of the ensemble of presynaptic proteins that are involved in orchestrating events at the nerve terminal. Bassoon is found in axon terminals of hippocampal neurons where it is highly concentrated in the vicinity of the active zone.

Piccolo has a similar distribution and colocalizes with Bassoon in cultured hippocampal cells. Piccolo zinc fingers interact with the dual prenylated rab3A and VAMP2/Synaptobrevin II receptor PRA. Bassoon may be involved in cytomatrix organization at the site of neurotransmitter release. The gene which encodes bassoon maps to human chromosome 3p21.31. The gene which encodes piccolo maps to human chromosome 7q21.11.

Function:

May act as a scaffolding protein involved in the organization of synaptic active zones and in synaptic vesicle trafficking.

Subunit:

Interacts with RABAC1/PRA1, RIMS2 and profilin (By similarity).

Subcellular Location:

Cell junction, synapse. Note=Concentrated at the presynaptic side of synaptic junctions.

Similarity:

Contains 2 C2 domains.

Contains 1 PDZ (DHR) domain.

SWISS:

Q9Y6V0

Gene ID:

27445

Database links:

[Entrez Gene: 27445](#)Human

[Entrez Gene: 26875](#)Mouse

[Entrez Gene: 56768](#)Rat

[Omim: 604918](#)Human

[SwissProt: Q9Y6V0](#)Human

[SwissProt: Q9QYX7](#)Mouse

[SwissProt: Q9JKS6](#)Rat

[Unigene: 12376](#)Human

[Unigene: 146275](#)Mouse

[Unigene: 53925](#)Rat

	<p>Important Note:</p>
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This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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