

Product datasheet for **AM26707RP-N**

Piccolo (PCLO) Mouse Monoclonal Antibody [Clone ID: PCLO-01]

Product data:

Product Type:	Primary Antibodies
Clone Name:	PCLO-01
Applications:	FC
Recommended Dilution:	Flow cytometry.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant PCLO protein
Specificity:	This antibody PCLO-01 recognizes PCLO (Piccolo), a more than 400 kDa multidomain protein expressed mainly in the presynaptic cytomatrix of the neurons.
Formulation:	Phosphate buffered saline (PBS) Label: PE State: Liquid Ig fraction Stabilizer: 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) Preservative: 15 mM sodium azide
Concentration:	lot specific
Purification:	Size-exclusion chromatography
Conjugation:	PE
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE! This products is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	piccolo presynaptic cytomatrix protein
Database Link:	Entrez Gene 27445 Human Q9Y6V0



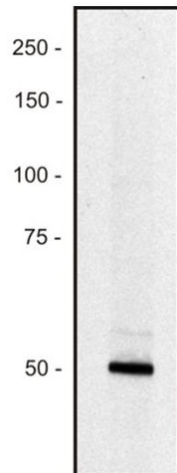
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Background:

PCLO (piccolo, also known as aczonin) is a large (more than 400 kDa) multidomain protein of the presynaptic cytomatrix in neurons, that is present in all vertebrate synapses, but is absent from invertebrates. It contains zinc finger and coiled-coil sequences, as well as N-terminal glutamine-rich sequence, and C-terminal PDZ domain followed by two C2 domains (C2A and C2B). In vitro binding and transfection experiments suggested that PCLO binds to multiple proteins including profilin and L-type calcium channels. It is involved in neurotransmitter release and insulin secretion.

Synonyms:

Protein piccolo, Aczonin, ACZ, KIAA0559

Product images:

Western blot of human REH erythroid cell line lysate (1% laurylmaltoside); non-reduced sample, immunostained by mAb PCLO-01 and goat anti-mouse IgG (H+L)-HRP conjugate. The zone evidently corresponds to a small splice variant of the PCLO protein present in this type of cell (see Uniprot database, Genome Res. 14:2121-2127(2004)); the major form (over 500 kDa) expressed in neurons is too large for analysis by Western blotting.