



Antibodies

1P-698-C025

## Monoclonal Antibody to PCLO Phycoerythrin (PE) conjugated (0.025 mg)

<b>Clone:</b>	PCLO-01
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody PCLO-01 recognizes PCLO (Piccolo), a more than 400 kDa multidomain protein expressed mainly in the presynaptic cytomatrix of the neurons.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Human recombinant PCLO protein
<b>Species Reactivity:</b>	Human
<b>Preparation:</b>	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
<b>Concentration:</b>	0.1 mg/ml
<b>Storage Buffer:</b>	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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.
<b>References:</b>	*Dresbach T, Torres V, Wittenmayer N, Altmann WD, Zamorano P, Zuschratter W, Nawrothki R, Ziv NE, Garner CC, Gundelfinger ED: Assembly of active zone precursor vesicles: obligatory trafficking of presynaptic cytomatrix proteins Bassoon and Piccolo via a trans-Golgi compartment. <i>J Biol Chem.</i> 2006 Mar 3;281(9):6038-47. *Mukherjee K, Yang X, Gerber SH, Kwon HB, Ho A, Castillo PE, Liu X, Südhof TC: Piccolo and bassoon maintain synaptic vesicle clustering without directly participating in vesicle exocytosis. <i>Proc Natl Acad Sci U S A.</i> 2010 Apr 6;107(14):6504-9.

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