

TECHNICAL DATA SHEET

CyFlow™ PCLO PE Anti-Hu; Clone PCLO-01

REF BR521844

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	PCLO
Alternative Names	—
Clone	PCLO-01
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [0.1 mg/ml]
Immunogen	Human recombinant PCLO protein

Specificity

The mouse monoclonal antibody PCLO-01 recognizes PCLO (Piccolo) antigen, a more than 400 kDa multidomain protein expressed mainly in the presynaptic cytomatrix of the neurons.

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Application

The reagent is designed for Flow Cytometry analysis. Working concentrations should be determined by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

PCLO (piccolo, 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.

References

- 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. J BiolChem. 2006 Mar 3; 281(9):6038-47. < PMID: 16373352 >
- 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. Proc Natl Acad Sci USA. 2010 Apr 6; 107(14):6504-9. < PMID: 20332206 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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