10320 Camino Santa Fe, Suite G
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Piccolo Antibody

Piccolo Antibody, Clone 6H9-B6

Catalog # ASM10136

Specification

Piccolo Antibody - Product Information

Application	ICC/IF, WB
Primary Accession	O9QYX7
Other Accession	NP_001104266.1
Host	Mouse
Isotype	IgG2b Kappa
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal

Description
Mouse Anti-Mouse Piccolo Monoclonal IgG2b Kappa

Target/Specificity
Detects ~550kDa. No cross-reactivity to Bassoon.

Other Names
ACZ Antibody, Aczonin Antibody, PCLO Antibody, Pico Antibody, presynaptic cytomatrix protein Antibody

Immunogen
Full length protein, BC001304.1

Purification
Protein G Purified

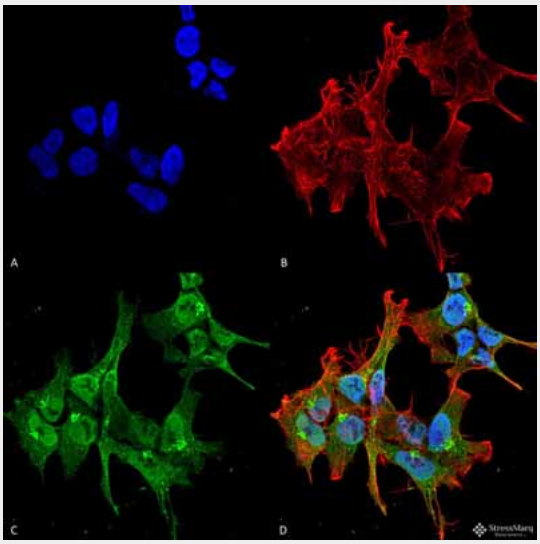
Storage	-20ºC

Storage Buffer
PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature	Blue Ice or 4ºC

Certificate of Analysis
1 µg/ml of SMC-188 was sufficient for detection of Piccolo in 20 µg of rat brain tissue lysate by colorimetric immunoblot analysis using goat IgG:HRP as the secondary antibody.

Cellular Localization
Cell Junction | Synapse



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Piccolo Monoclonal Antibody, Clone 6H9-B6 (ASM10136). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Piccolo Monoclonal Antibody (ASM10136) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cytoplasm, Endoplasmic Reticulum, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Piccolo Antibody (D) Composite.

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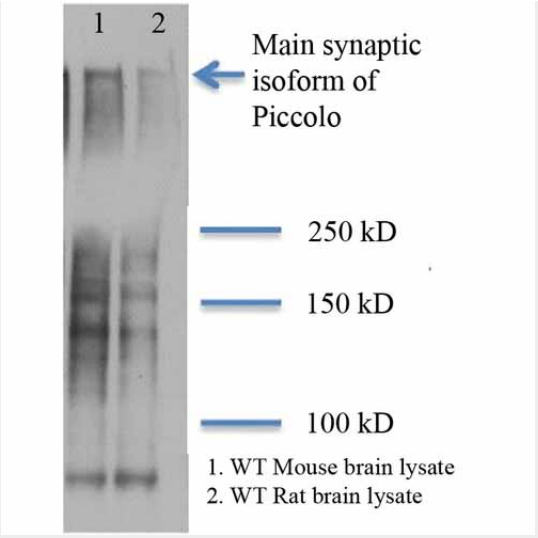
Piccolo Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



Western Blot analysis of Rat and mouse brain lysates showing detection of Piccolo protein using Mouse Anti-Piccolo Monoclonal Antibody, Clone 6H9-B6 (ASM10136). Primary Antibody: Mouse Anti-Piccolo Monoclonal Antibody (ASM10136) at 1:1000. (1) Mouse brain lysate; (2) Rat brain lysate.

Piccolo Antibody - Background

Piccolo, also referred to as Aczonin, is a large protein which consists of an N-terminal Zn2+ finger, several piccolo-bassoon homology domains and C-terminal PDZ and C2 domains (1, 2). In general it is found together with bassoon, a related huge multi-domain protein of the CAZ (cytoskeletal matric assembled at active zones) (3). Piccolo is a scaffolding protein for proteins involved in endo- and exocytosis of synaptic vesicles. Piccolo has also been shown to interfere with clathrin medicated endocytosis by binding to the F-actin and dynamin binding protein Abp1 (2).

Piccolo Antibody - References

1. Gerber S.H., Garcia J., Rizo J., Sudhof T.C. (2001) EMBO J. 20(7): 1605-1619.
2. Wang X., et al. (1999) J Cell Biol. 147(1): 151-162.
3. Dresbach T., et al. (2006) J Biol Chem. 281(9):6038-6047.