

**Piccolo Antibody**  
**Piccolo Antibody, Clone 6H9-B6**  
**Catalog # ASM10136**

## Specification

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### Piccolo Antibody - Product Information

Application	<b>WB</b>
Primary Accession	<a href="#">O9QYX7</a>
Other Accession	<a href="#">NP_001104266.1</a>
Host	<b>Mouse</b>
Isotype	<b>IgG2b Kappa</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Monoclonal</b>

#### 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 **-20°C**

#### Storage Buffer

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

Shipping Temperature **Blue Ice or 4°C**

#### 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

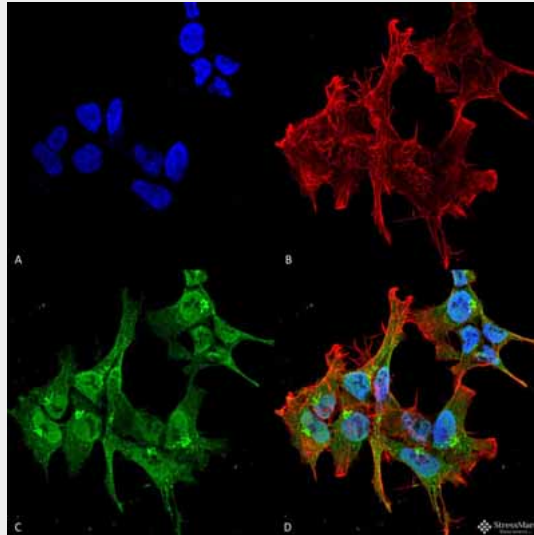
### Piccolo Antibody - Protocols

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

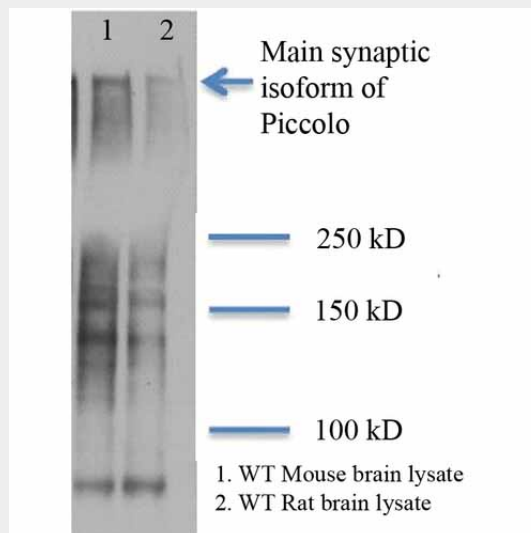
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Piccolo Antibody - Images



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.



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 Zn<sup>2+</sup> 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 matrix 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 mediated 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.