

Anti-Piccolo

Catalog# SPC-197D

Size: 100µg

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This product is for *in vitro* research use only and is not intended for use in humans or animals

StressMarq

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Product	Rabbit anti-Piccolo, Polyclonal
Clone	N/A
Immunogen	Full length protein, BC001304.1
Host and Subclass	Rabbit polyclonal
Cited Applications	WB, IHC
Specificity	No cross-reactivity to Bassoon, band at about 550 kD corresponding to the molecular weight of Piccolo, multiple isoforms can be detected
Species cross-reactivity	Human, Mouse, Rat. Other species not yet tested
Format	Protein G Purified. In PBS pH7.4, 50% glycerol and 0.09% sodium azide.
Concentration and working dilution	1mg/mL; 1:1000 (WB). For large isoforms reduce dilution
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

Scientific Background

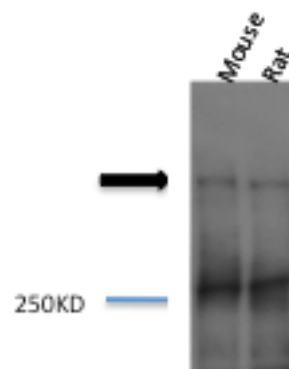
Piccolo, also referred to as Aczonin, is a large protein which consists of an N-terminal Zn²⁺ finger, several piccolo-bassoon homology domains and C-terminal PDZ and C2 domains (1, 2). In general it is found together with bassoon, a related huge multi-domain protein of the CAZ (cytoskeletal matrix assembled 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).

Selected References

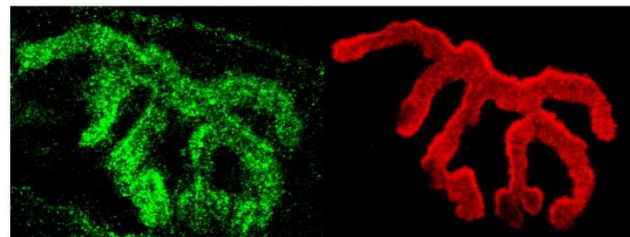
1. Gerber S.H., Garcia J., Rizo J., Sudhof T.C. (2001) *EMBO J.* 20(7): 1605-1619.
2. Wang X., et al. (1999) *J Cell Biol.* 147(1): 151-162.
3. Dresbach T., et al. (2006) *J Biol Chem.* 281(9):6038-6047.

Certificate of Analysis

1µg/mL of SPC-197 was sufficient for detection of Piccolo in 10µg of rat brain tissue lysate by colorimetric immunoblot analysis using goat anti-rabbit IgG:HRP as the secondary antibody.



Piccolo Western Blot, Mouse and rat brain lysate (10µg), 1µg/ml dilution showing main synaptic isoform.



Piccolo and BTX. Neuromuscular junction whole muscle samples from adult mouse, with 1:400 dilution SPC-197, secondary (Alexa 488 goat anti-mouse IgG, IgM (H+L) from invitrogen (#A-10680)). It shows bright staining of the NMJ very selectively as well as some terminals, very brightly.

Material Safety Data Sheet

Anti- Picollo (Polyclonal Antibody) SPC-197

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The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
Sodium Azide	26628-22-8	0.09

Physical Data

This product consists of mouse immunoglobulin in PBS containing 0.09% azide in 50% glycerol, shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.

Authorized: StressMarq Biosciences Inc.
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