

Datasheet for 600-401-G30**Piccolo Antibody****Overview**

Description:	Anti-Piccolo (RABBIT) Antibody - 600-401-G30
Item No.:	600-401-G30
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Piccolo, also referred to as Aczonin, is a large protein which consists of an N-terminal Zn ²⁺ finger, several piccolo-bassoon homology domains and C-terminal PDZ and C2 domains. In general it is found together with bassoon, a related huge multi-domain protein of the CAZ (cytoskeletal matrix assembled at active zones). 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.
Synonyms:	Protein piccolo, Aczonin, PCLO, ACZ, KIAA0559
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PCLO
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	Piccolo Antibody was produced from whole rabbit serum prepared by repeated immunizations raised against full length protein.

Purity/Specificity: Anti-Piccolo Antibody was purified by affinity chromatography. A BLAST analysis was used to suggest cross-reactivity with Piccolo from Human, Mouse, and Rat based on 100% homology with the immunizing sequence. No cross-reactivity to Bassoon. Cross-reactivity with Piccolo from other sources has not been determined. Neuroscience research.

Relevant Links:

- [NCBI - NP_055325.2](#)
- [GeneID - 27445](#)
- [UniProtKB - Q9Y6V0](#)

Application Details

Tested Applications: IHC, WB

Application Note: Anti-Piccolo Antibody is tested for use in WB and IHC. Expect a band approximately ~550kDa corresponding to the molecular weight of Piccolo. Multiple isoforms can be detected. Specific conditions for reactivity should be optimized by the end user.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

IF: 1ug/ml

WB: 1:1000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1mg/mL by UV absorbance at 280 nm

Buffer: 1X PBS, pH 7.4

Preservative: 0.09% (w/v) Sodium Azide

Stabilizer: 50% (v/v) Glycerol

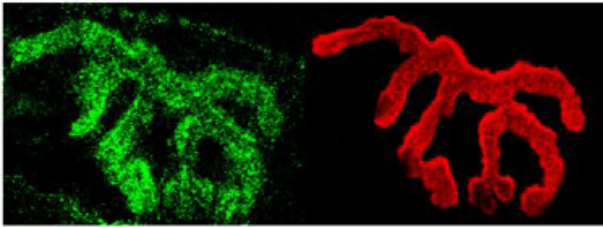
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

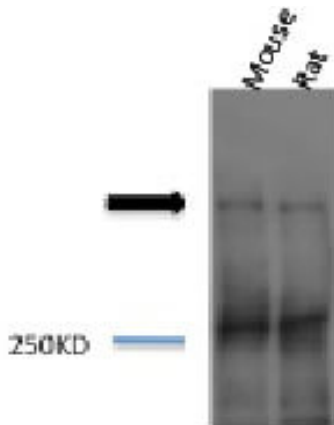
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunofluorescence of rabbit anti-Piccolo antibody. Tissue: Neuromuscular junction whole muscle samples from adult mouse. Antigen retrieval: not required. Primary Antibody: Piccolo at 1ug/ml for 1h at RT. Secondary antibody: Alexa 488 goat anti-rabbit secondary at 1:10,000 for 45 min at RT. Localization: Cell junction; synapse. Staining: Piccolo as green fluorescent signal.



Western Blot

Western Blot of rabbit anti-Piccolo antibody. Lane 1: Mouse Brain Lysate. Lane 2: Rat Brain Lysate. Primary antibody: Piccolo antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-rabbit IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C. Predicted/Observed size: 553.2kDa/550kDa. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.