

Anti-Profilin 1 Picoband Antibody
Catalog # ABO12004**Specification****Anti-Profilin 1 Picoband Antibody - Product Information**

Application	WB
Primary Accession	P07737
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Profilin-1(PFN1) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Profilin 1 Picoband Antibody - Additional Information

Gene ID 5216

Other Names

Profilin-1, Epididymis tissue protein Li 184a, Profilin I, PFN1

Calculated MW

15054 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Cytoplasm, cytoskeleton.

Tissue Specificity

Expressed in epididymis (at protein level). .

Protein Name

Profilin-1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Profilin 1(116-140aa KEGVHGGLINKKCYEMASHLRRSQY), identical to the related mouse and rat sequences.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Profilin 1 Picoband Antibody - Protein Information

Name PFN1

Function

Binds to actin and affects the structure of the cytoskeleton. At high concentrations, profilin prevents the polymerization of actin, whereas it enhances it at low concentrations. By binding to PIP2, it inhibits the formation of IP3 and DG. Inhibits androgen receptor (AR) and HTT aggregation and binding of G-actin is essential for its inhibition of AR.

Cellular Location

Cytoplasm, cytoskeleton.

Tissue Location

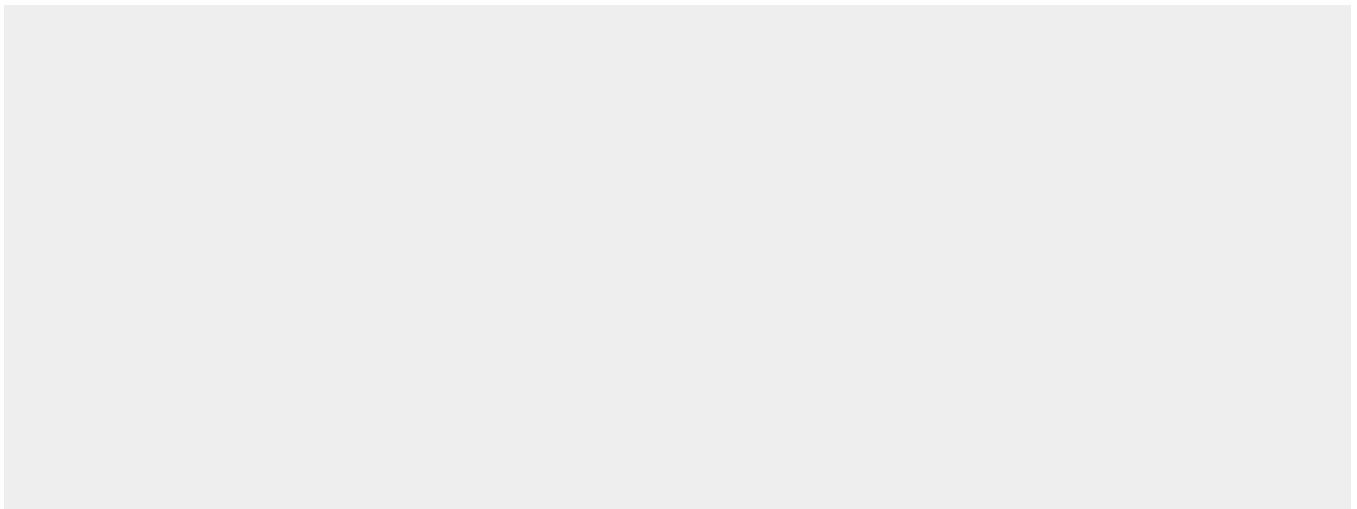
Expressed in epididymis (at protein level).

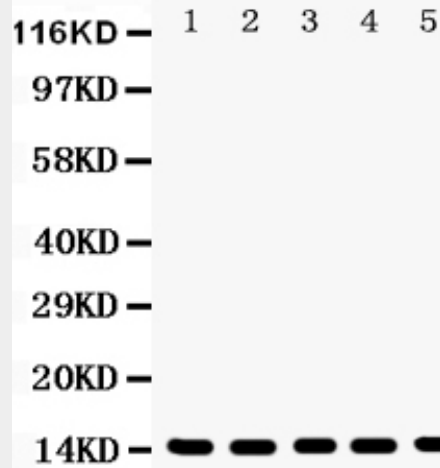
Anti-Profilin 1 Picoband Antibody - Protocols

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](#)

Anti-Profilin 1 Picoband Antibody - Images





Anti- Profilin1 Picoband antibody, ABO12004, Western blotting All lanes: Anti Profilin1 (ABO12004) at 0.5ug/ml Lane 1: Rat Testis Tissue Lysate at 50ug Lane 2: Mouse Testis Tissue Lysate at 50ug Lane 3: Human Placenta Tissue Lysate at 50ug Lane 4: PANC Whole Cell Lysate at 40ug Lane 5: SW620 Whole Cell Lysate at 40ug Predicted bind size: 15KD Observed bind size: 15KD

Anti-Profilin 1 Picoband Antibody - Background

Profilin-1 is a protein that in humans is encoded by the PFN1 gene. The protein encoded by this gene is a ubiquitous actin monomer-binding protein belonging to the profilin family. PFN1 is mapped to 17p13.2. At high concentrations, profilin prevents the polymerization of actin, whereas it enhances it at low concentrations. This gene is a 140-amino acid protein and major growth regulator of filamentous (F)-actin through its binding of monomeric (G)-actin. It is thought to regulate actin polymerization in response to extracellular signals. Deletion of this gene is associated with Miller-Dieker syndrome.