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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 NaN3.

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 r˚Constitution, 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 Cytomety
- Cell Culture

Anti-Profilin 1 Picoband Antibody - Images

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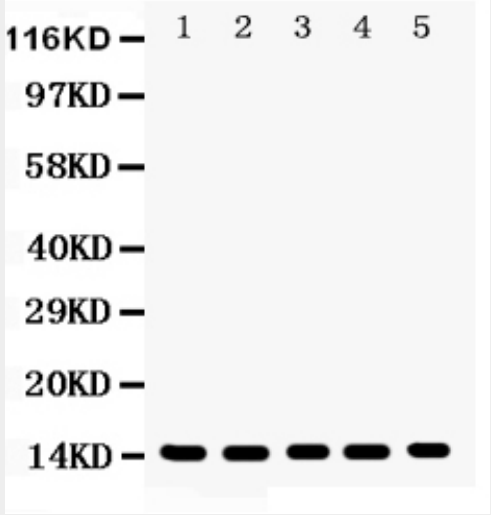

Anti- Profilin1 Picoband antibody, ABO12004, Western blottingAll lanes: Anti Profilin1 (ABO12004) at 0.5ug/mlLane 1: Rat Testis Tissue Lysate at 50ugLane 2: Mouse Testis Tissue Lysate at 50ugLane 3: Human Placenta Tissue Lysate at 50ugLane 4: PANC Whole Cell Lysate at 40ugLane 5: SW620 Whole Cell Lysate at 40ugPredicted bind size: 15KDObserved 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.