

Anti-Profilin 1 Picoband Antibody

Catalog # ABO12004

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.

Additional Information

Gene ID	5216
Other Names	Profilin-1, Epididymis tissue protein Li 184a, Profilin I, PFN1
Calculated MW	15054
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). .
Source	Eukaryota
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.

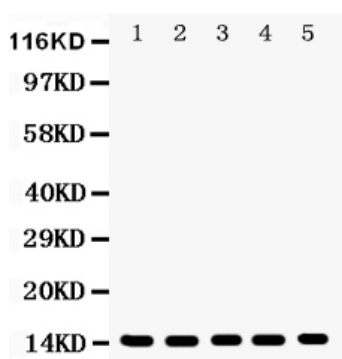
Protein Information

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).

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.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.