

## Product datasheet for **CF501243**

### Profilin 1 (PFN1) Mouse Monoclonal Antibody [Clone ID: OTI2D2]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI2D2   |
| Applications:           | FC, IF, IHC, WB  |
| Recommended Dilution:   | WB 1:1000~2000, IHC 1:50, IF 1:100, FLOW 1:100   |
| Reactivity:             | Human, Dog, Rat, Monkey, Mouse   |
| Host:                   | Mouse  |
| Isotype:                | IgG1   |
| Clonality:              | Monoclonal   |
| Immunogen:              | Full length human recombinant protein of human PFN1 (NP_005013) produced in HEK293T cell.  |
| Formulation:            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)  |
| Reconstitution Method:  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 14.9 kDa   |
| Gene Name:              | profilin 1   |
| Database Link:          | <a href="#">NP_005013</a><br><a href="#">Entrez Gene 18643 Mouse</a> <a href="#">Entrez Gene 64303 Rat</a> <a href="#">Entrez Gene 607397 Dog</a> <a href="#">Entrez Gene 710753 Monkey</a> <a href="#">Entrez Gene 5216 Human</a><br><a href="#">P07737</a>   |



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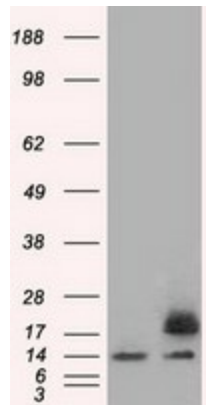
**Background:** The protein encoded by this gene is a ubiquitous actin monomer-binding protein belonging to the profilin family. It is thought to regulate actin polymerization in response to extracellular signals. Deletion of this gene is associated with Miller-Dieker syndrome. [provided by RefSeq]

**Synonyms:** ALS18

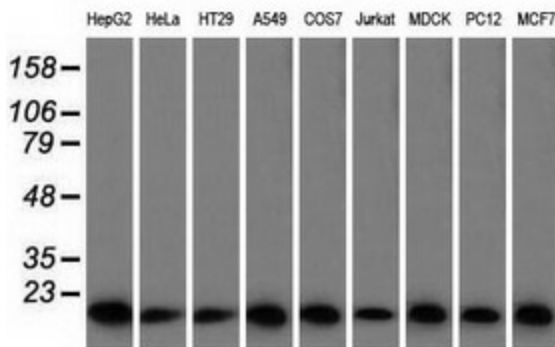
**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:** Regulation of actin cytoskeleton

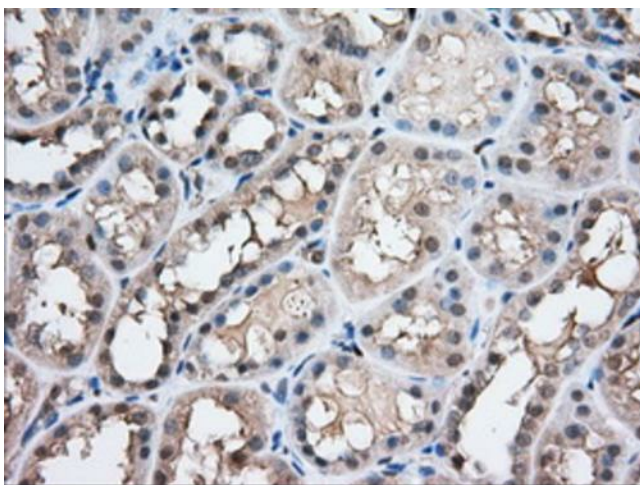
**Product images:**



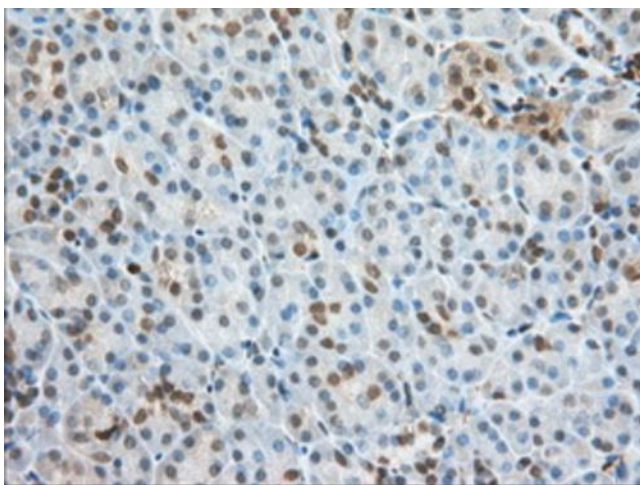
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PFN1 [RC202338], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PFN1. Positive lysates [LY417584] (100ug) and [LC417584] (20ug) can be purchased separately from OriGene.



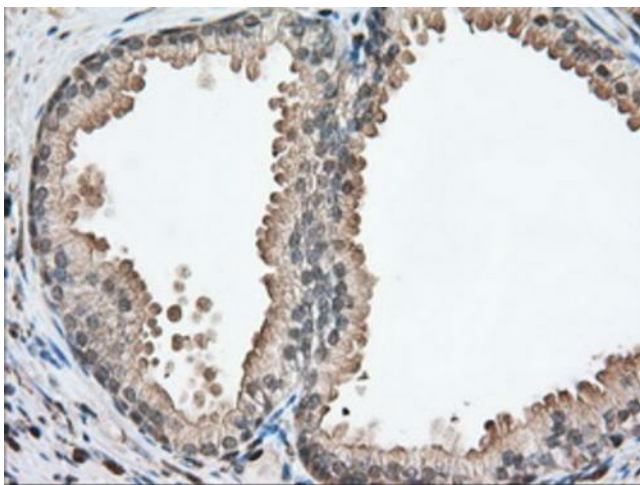
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-PFN1 monoclonal antibody.



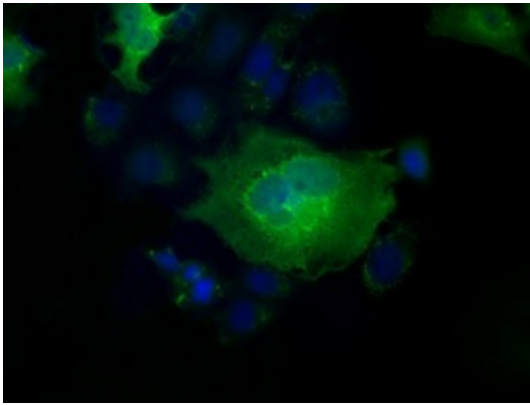
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-PFN1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



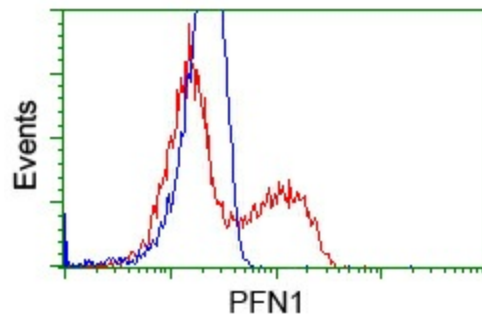
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-PFN1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



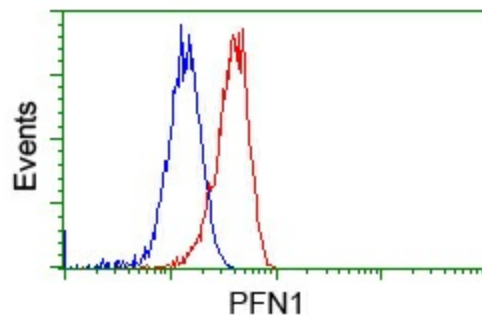
Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-PFN1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



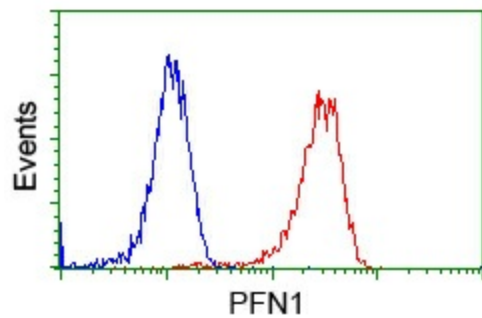
Anti-PFN1 mouse monoclonal antibody ([TA501243]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PFN1 ([RC202338]).



HEK293T cells transfected with either [RC202338] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PFN1 antibody ([TA501243]), and then analyzed by flow cytometry.



Flow cytometric Analysis of HeLa cells, using anti-PFN1 antibody ([TA501243]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-PFN1 antibody ([TA501243]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).