

**PFN1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2837c****Specification**

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**PFN1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P07737](#)**PFN1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 5216**Other Names**

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

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2837c](/products/AP2837c) was selected from the Center region of human PFN1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PFN1 Antibody (Center) Blocking Peptide - 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).

## **PFN1 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **PFN1 Antibody (Center) Blocking Peptide - Images**

## **PFN1 Antibody (Center) Blocking Peptide - Background**

PFN1 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 PFN1 gene is associated with Miller-Dieker syndrome.

## **PFN1 Antibody (Center) Blocking Peptide - References**

Shao,J., Mol. Cell. Biol. 28 (17), 5196-5208 (2008)Burnett,B.G., Neurobiol. Dis. 30 (3), 365-374 (2008)Gieselmann,R., Eur. J. Biochem. 229 (3), 621-628 (1995)