

PFN4 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP12540b**Specification**

PFN4 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q8NHR9](#)**PFN4 Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 375189**Other Names**

Profilin-4, Profilin IV, PFN4

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.

PFN4 Antibody (C-term) Blocking peptide - Protein Information**Name** PFN4**Function**

Involved in male fertility. Required for manchette development and acrosome biogenesis during spermiogenesis (By similarity). Binds in vitro to phospholipids, including phosphatidylinositol 3-phosphate (PtdIns(3)P), phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2), phosphatidylinositol 4-phosphate (PtdIns(4)P) and phosphatidic acid (PA) (PubMed:19419568). Contrary to other profilin family members, does not bind to actin in vitro (PubMed:19419568).

Cellular Location

Cytoplasm. Note=In round spermatids, mainly observed in the acroplaxome. During the progression of spermiogenesis, relocates to the developing manchette of spermatids step 8 (S8). Coinciding with the initiation of manchette disassembly in spermatids S14, seen in the cytoplasm subjacent to the disassembling manchette.

Tissue Location

Expressed in testis, in germ cells in seminiferous tubules (at protein level) (PubMed:15591451, PubMed:19419568). Prominently expressed in pachytene/diplotene stage spermatocytes (PubMed:33438010).

PFN4 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

PFN4 Antibody (C-term) Blocking peptide - Images**PFN4 Antibody (C-term) Blocking peptide - Background**

PFN4 binds to actin and affects the structure of the cytoskeleton (By similarity).

PFN4 Antibody (C-term) Blocking peptide - References

Hosgood, H.D. III, et al. Occup Environ Med 66(12):848-853(2009)Behnen, M., et al. BMC Cell Biol. 10, 34 (2009) :