

**ACPT Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8714a****Specification**

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**ACPT Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9BZG2](#)**ACPT Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 93650

**Other Names**

Testicular acid phosphatase, ACPT

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8714a](/products/AP8714a) was selected from the N-term region of human ACPT. 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.

**ACPT Antibody (N-term) Blocking Peptide - Protein Information**Name ACP4 ([HGNC:14376](#))**Function**

May dephosphorylate receptor tyrosine-protein kinase ERBB4 and inhibits its ligand-induced proteolytic cleavage (PubMed: <http://www.uniprot.org/citations/15219672> target="\_blank">15219672</a>). May play a role in odontogenesis (PubMed: <http://www.uniprot.org/citations/27843125> target="\_blank">27843125</a>).

**Cellular Location**

Membrane; Single-pass type I membrane protein

**Tissue Location**

Expressed mainly in the testis. Also expressed in the brain where they are enriched at the postsynaptic sites. Expressed at lower levels in the trachea, prostate, bone marrow, spinal cord, colon, fetal brain, heart, thymus, fetal liver, spleen, leukocytes, ovary, small intestine, pancreas

and skeletal muscle. Expression is significantly lower in testicular cancer tissues than in normal testicular tissues. Isoform 3 is expressed in the testis, trachea, prostate and bone marrow.

### **ACPT Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **ACPT Antibody (N-term) Blocking Peptide - Images**

### **ACPT Antibody (N-term) Blocking Peptide - Background**

Acid phosphatases are enzymes capable of hydrolyzing orthophosphoric acid esters in an acid medium. ACPT has structural similarity to prostatic and lysosomal acid phosphatases.

### **ACPT Antibody (N-term) Blocking Peptide - References**

Fleisig,H., et.al., Neuroscience 127 (1), 91-100 (2004)