

**TPTEa Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6811a****Specification**

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**TPTEa Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P56180](#)**TPTEa Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 7179**Other Names**

Putative tyrosine-protein phosphatase TPTE, Cancer/testis antigen 44, CT44, Transmembrane phosphatase with tensin homology, Tumor antigen BJ-HCC-5, TPTE

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6811a](/product/products/AP6811a) was selected from the N-term region of human TPTEa. 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.

**TPTEa Antibody (N-term) Blocking Peptide - Protein Information****Name** TPTE**Function**

Could be involved in signal transduction.

**Cellular Location**

Membrane; Multi-pass membrane protein.

**Tissue Location**

Exclusively expressed in testis.

**TPTEa Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

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

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

Ubiquitin is a 76 amino acid highly conserved eukaryotic polypeptide that selectively marks cellular proteins for proteolytic degradation by the 26S proteasome. The process of target selection, covalent attachment and shuttle to the 26S proteasome is a vital means of regulating the concentrations of key regulatory proteins in the cell by limiting their lifespans. Polyubiquitination is a common feature of this modification. Serial steps for modification include the activation of ubiquitin, an ATP-dependent formation of a thioester bond between ubiquitin and the enzyme E1, transfer by transacylation of ubiquitin from E1 to the ubiquitin conjugating enzyme E2, and covalent linkage to the target protein directly by E2 or via E3 ligase enzyme. Deubiquitination enzymes also exist to reverse the marking of protein substrates. Posttranslational tagging by Ub is involved in a multitude of cellular processes, including the cell cycle, cell growth and differentiation, embryogenesis, apoptosis, signal transduction, DNA repair, regulation of transcription and DNA replication, transmembrane transport, stress responses, the immune response, and nervous system functions.

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

Hattori, M., et al., Nature 405(6784):311-319 (2000). Chen, H., et al., Hum. Genet. 105(5):399-409 (1999).