

**TPST1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2321a****Specification**

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**TPST1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [O60507](#)**TPST1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 8460**Other Names**

Protein-tyrosine sulfotransferase 1, Tyrosylprotein sulfotransferase 1, TPST-1, TPST1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2321a](/product/products/AP2321a) was selected from the N-term region of human TPST1. 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.

**TPST1 Antibody (N-term) Blocking Peptide - Protein Information****Name** TPST1**Function**

Catalyzes the O-sulfation of tyrosine residues within acidic motifs of polypeptides, using 3'-phosphoadenylyl sulfate (PAPS) as cosubstrate.

**Cellular Location**

Golgi apparatus membrane; Single-pass type II membrane protein

**Tissue Location**

Ubiquitous. Detected in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas

**TPST1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **TPST1 Antibody (N-term) Blocking Peptide - Images**

#### **TPST1 Antibody (N-term) Blocking Peptide - Background**

The importance of tyrosine O-sulfation in protein-protein interactions is illustrated by the sulfation of tyrosine residues in the leukocyte adhesion molecule P-selectin glycoprotein ligand-1; sulfation is required for its binding to P-selectin on activated endothelium. This enzyme represents a new class of Golgi sulfotransferases that catalyze tyrosine O-sulfation of many protein substrates involved in diverse physiologic functions including inflammation, hemostasis, body weight and reproductive physiology.

#### **TPST1 Antibody (N-term) Blocking Peptide - References**

Hillier, L.W., et al., Nature 424(6945):157-164 (2003). Scherer, S.W., et al., Science 300(5620):767-772 (2003). Seibert, C., et al., Proc. Natl. Acad. Sci. U.S.A. 99(17):11031-11036 (2002). Goettsch, S., et al., Biochem. Biophys. Res. Commun. 294(3):541-546 (2002). Popovic, M., et al., Eur. J. Hum. Genet. 10(4):250-258 (2002).