

**TPA Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6778c****Specification**

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**TPA Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P00750](#)**TPA Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 5327

**Other Names**

Tissue-type plasminogen activator, t-PA, t-plasminogen activator, tPA, Alteplase, Reteplase, Tissue-type plasminogen activator chain A, Tissue-type plasminogen activator chain B, PLAT

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6778c](/products/AP6778c) was selected from the Center region of human TPA. 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.

**TPA Antibody (Center) Blocking Peptide - Protein Information**Name PLAT ([HGNC:9051](#))**Function**

Converts the abundant, but inactive, zymogen plasminogen to plasmin by hydrolyzing a single Arg-Val bond in plasminogen. By controlling plasmin-mediated proteolysis, it plays an important role in tissue remodeling and degradation, in cell migration and many other physiopathological events. During oocyte activation, plays a role in cortical granule reaction in the zona reaction, which contributes to the block to polyspermy (By similarity).

**Cellular Location**

Secreted, extracellular space.

**Tissue Location**

Synthesized in numerous tissues (including tumors) and secreted into most extracellular body

fluids, such as plasma, uterine fluid, saliva, gingival crevicular fluid, tears, seminal fluid, and milk

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

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

- [Blocking Peptides](#)

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

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

TPA is a tissue-type plasminogen activator, a secreted serine protease which converts the proenzyme plasminogen to plasmin, a fibrinolytic enzyme. Tissue-type plasminogen activator is synthesized as a single chain which is cleaved by plasmin to a two chain disulfide linked protein. This enzyme plays a role in cell migration and tissue remodeling. Increased enzymatic activity causes hyperfibrinolysis, which manifests as excessive bleeding; decreased activity leads to hypofibrinolysis which can result in thrombosis or embolism.

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

de Vos,A.M., et.al., Biochemistry 31 (1), 270-279 (1992)Bentov,Y., et.al., PLoS ONE 4 (6), E5918 (2009)