

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

TPA Antibody (Center) Blocking Peptide - Product InformationPrimary 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 InformationName 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)