

Anti-PLAT/TPA Antibody
Catalog # ABO12036**Specification**

Anti-PLAT/TPA Antibody - Product Information

Application	WB
Primary Accession	P00750
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Tissue-type plasminogen activator(PLAT) detection. Tested with WB in Human;Mouse.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-PLAT/TPA Antibody - Additional Information

Gene ID 5327

Other Names

Tissue-type plasminogen activator, t-PA, t-plasminogen activator, tPA, 3.4.21.68, Alteplase, Reteplase, Tissue-type plasminogen activator chain A, Tissue-type plasminogen activator chain B, PLAT

Calculated MW

62917 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse

Subcellular Localization

Secreted, extracellular space.

Tissue Specificity

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.

Protein Name

Tissue-type plasminogen activator

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

E.coli-derived human TPA recombinant protein (Position: H366-P562). Human TPA shares 83% and 84% amino acid (aa) sequence identity with mouse and rat TPA, respectively.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the peptidase S1 family.

Anti-PLAT/TPA Antibody - 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.

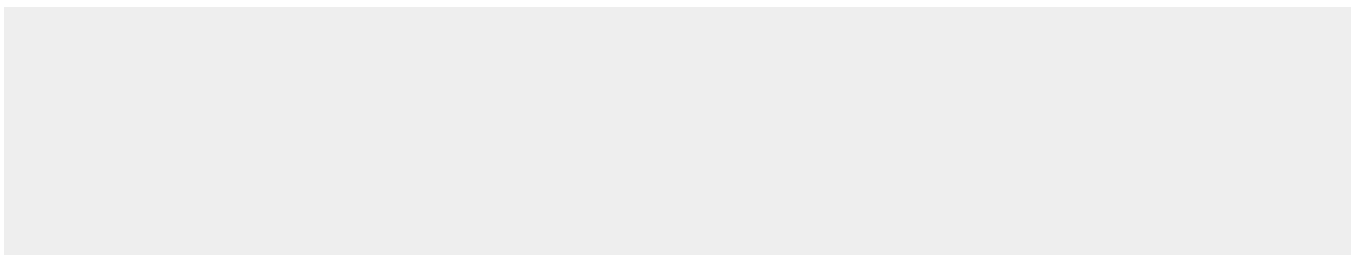
Tissue Location

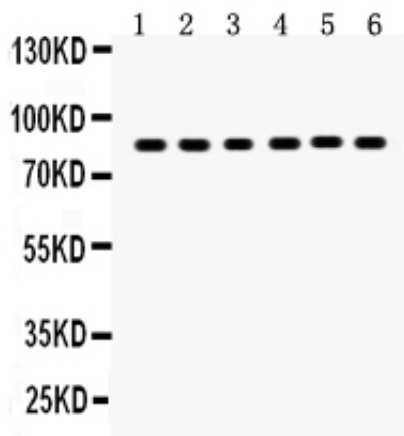
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Anti-PLAT/TPA Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-PLAT/TPA Antibody - Images



Anti-TPA Picoband antibody, ABO12036, Western blotting All lanes: Anti TPA (ABO12036) at 0.5ug/ml
Lane 1: Mouse Lung Tissue Lysate at 50ug
Lane 2: Mouse Testis Tissue Lysate at 50ug
Lane 3: U87 Whole Cell Lysate at 40ug
Lane 4: A431 Whole Cell Lysate at 40ug
Lane 5: A375 Whole Cell Lysate at 40ug
Lane 6: A549 Whole Cell Lysate at 40ug
Predicted bind size: 85KD
Observed bind size: 85KD

Anti-PLAT/TPA Antibody - Background

PLAT is also known as tPA. This gene encodes 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. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.