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TPA Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6778C

Specification

TPA Antibody (Center) - Product Information

Application	**WB, FC, IHC-P,E**
Primary Accession	P00750
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**62917**
Antigen Region	**371-399**

TPA Antibody (Center) - 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
This TPA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 371-399 amino acids from the Central region of human TPA.

Dilution
WB~~1:2000
FC~~1:10~50
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
TPA Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

TPA Antibody (Center) - 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.

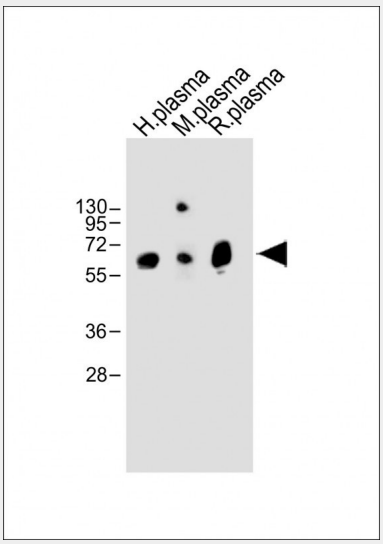
Tissue Location
Synthesized in numerous tissues (including tumors) and secreted into most extracellular body fluids, such as plasma, uterine fluid, saliva, gingival crevicular fluid, tears, seminal fluid, and milk

TPA Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TPA Antibody (Center) - Images



All lanes : Anti-TPA Antibody (Center) at 1:2000 dilution Lane 1: Human plasma whole lysate Lane 2: Mouse plasma whole lysate Lane 3: Rat plasma whole lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 63 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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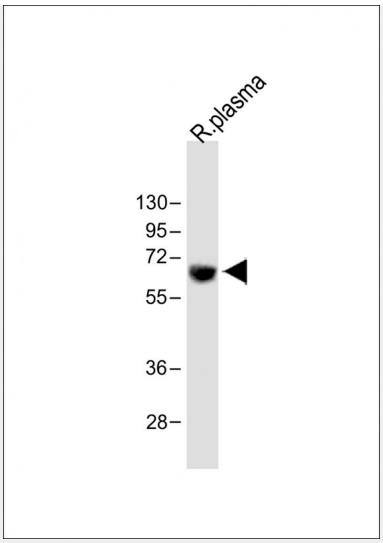
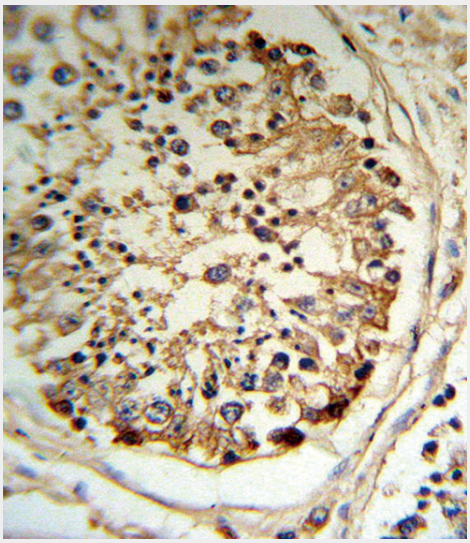


Anti-TPA Antibody (Center) at 1:2000 dilution + Rat plasma whole lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 63 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



TPA Antibody (Center) (RB18787) IHC analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the TPA Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

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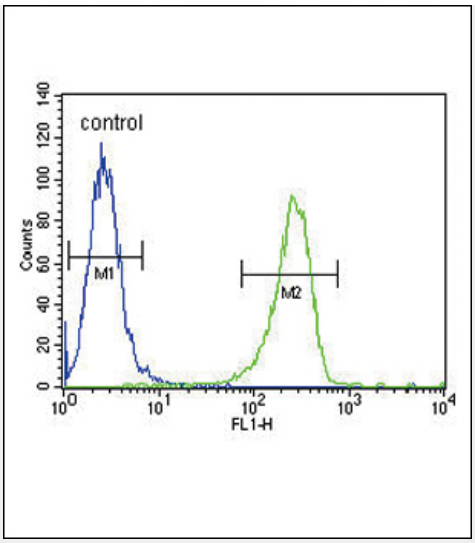

TPA Antibody (Center)? (Cat. #AP6778c) flow cytometric analysis of A2058 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

TPA Antibody (Center) - 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) - References

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