

## Product datasheet for **AP00892PU-N**

### PLAT Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA: 1/10,000-1/100,000. Western blot: 1/1,000-1/10,000. Immunohistochemistry: 1/100-1/1,000 for Frozen, Paraformaldehyde-Fixed Sections. Recommended pair for Sandwich Immunoassay: Capture: AM05122PU-N Detection: AP00892PU-N.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Recombinant human tPA
Specificity:	This antibody recognizes tPA.
Formulation:	0.05M Sodium Phosphate, pH 6.6 containing 0.1M Sodium Chloride and 1mM EDTA State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at -70°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	plasminogen activator, tissue type
Database Link:	<a href="#">Entrez Gene 5327 Human P00750</a>



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**Background:**

TPA converts the abundant, but inactive, zymogen plasminogen to plasmin by hydrolyzing a single Arg-Val bond. By controlling plasmin-mediated proteolysis, it plays an important role in tissue remodeling and degradation, cell migration and many other physiopathological events. TPA binds to fibrin with high affinity; this leads to an increase in the catalytic efficiency of the enzyme of 100- to 1000-fold, due to an increase in affinity for plasminogen. Similarly, binding to heparin increases the activation of plasminogen. Binding to laminin and fibronectin has also been demonstrated. TPA also binds to mannose receptor and the low density lipoprotein receptor related protein (LRP1). These proteins are involved in TPA clearance. TPA binds to annexin II and to cytokeratin 8. As yet unidentified interactions on endothelial cells and vascular smooth muscle cells (VSMC) lead to a 100-fold stimulation of plasminogen activation. Binding to VSMC reduces TPA inhibition by PAI-1 by 30-fold.

**Synonyms:**

tPA, Tissue-type plasminogen activator, Alteplase, Reteplase