

## Product datasheet for **AP02244SU-S**

### PLAT Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC
Recommended Dilution:	<b>ELISA.</b> <b>Immunohistochemistry on Frozen Sections:</b> 1/50-1/100. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50 (Pretreatment with 0.05% Pronase E for 20 minutes).
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Purified Human tissue Plasminogen Activator [tPA]
Specificity:	This antibody detects free tissue Plasminogen Activator (tPA) and tPA inhibitor complexes. There were no cross reactivities obtained with Human uPA and PAI-2.
Formulation:	State: Serum State: Lyophilized Serum
Reconstitution Method:	Restore in aqua bidest to initial volume.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. 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 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. 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

**Note:**

Reference no.: LocusID 5327