

Anti-Human tPA (Sheep)

Affinity-Purified IgG 0.50 mg

Ref#: SATPA-AP
Lot#: 943497
Exp. Date: 2020-06



Store at -10 to -20°C

For Research Use Only
Not for Use in Diagnostic Procedures
For *in vitro* use only

Immunogen:	Human tissue Plasminogen Activator, tPA (from human melanoma cell line)
Format:	Affinity Purified IgG in 10 mM HEPES / 150 mM NaCl / 50% (v/v) glycerol / pH 7.2
Host:	Sheep
Storage:	Store between -10 and -20°C. Vial should be tightly capped. Do not store in frost-free freezers. Allow product to warm to room temperature and gently mix before use
Total Protein:	0.50 mg
Applications:	Suitable as a source of enriched antibodies For Research Use Only. Not for Use in Diagnostic Procedures. For <i>in vitro</i> use only
Volume:	1 vial containing 0.25 mL anti-human, affinity purified IgG
Concentration:	2 mg/mL affinity purified IgG by absorbance; Extinction Coefficient $E^{1\%}_{280} = 13.4$
Specificity:	Specificity demonstrated by immunoelectrophoresis and ELISA methods

Human tPA is a 68KDa serine protease synthesized primarily in endothelial cells. tPA is beside uPA one of two major activators of Plasminogen. Activation of Plasminogen by tPA is dependent on the presence of Fibrin cofactor and occurs by cleavage after residue Arg560 to produce the two-chain active serine protease Plasmin. The activity of tPA is regulated by a very short half-life in circulation and by circulating PAI-1 and alpha2-Macroglobulin. Most of the tPA (<90%) is complexed with its primary inhibitor PAI, the normal tPA concentration in human plasma is reported from 20 ng/mL to 5 µg/mL, depending on the assay used.