

## Anti-human Tissue Plasminogen Activator (tPA), Rabbit Peroxidase Conjugated IgG, 0.20 mg

Reference Number: 5D-12250S

Lot Number: xxxxxx

Expiration Date: xxxx-xx

For Research Use Only

Not for Use in Diagnostic Procedures

For in vitro Use Only

<b>Immunogen:</b>	Human tPA (human, from melanoma cell line))
<b>Format:</b>	Peroxidase conjugated IgG in a buffered stabilizer solution containing 50% (v/v) glycerol
<b>Host:</b>	Rabbit
<b>Storage:</b>	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. Avoid exposure to sodium azide as this is an inhibitor of peroxidase activity.
<b>Total Protein:</b>	0.20 mg
<b>Volume:</b>	1 vial containing 0.100 mL IgG conjugated to horseradish peroxidase (HRP) through carbohydrate groups
<b>Concentration:</b>	2 mg/mL IgG-HRP by Absorbance; Extinction Coefficient $E_{1\%}^{1\text{cm}}_{280} = 14.0$
<b>Reinheitszahl (A403/A280):</b>	0.41 as determined spectrophotometrically
<b>Specificity:</b>	Specificity demonstrated by immunoelectrophoresis and ELISA methods.
<b>Application:</b>	Suitable as a source of peroxidase-labeled antibodies.

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.