



Sheep anti Human Tissue Plasminogen Activator polyclonal antibody [Biotin] (CABT-L484)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Prior to conjugation, this antibody was specific for tPA as demonstrated by immunoelectrophoresis and ELISA.
Target	tPA
Immunogen	Human tissue-type plasminogen activator prepared from melanoma cell line.
Isotype	IgG
Source/Host	Sheep
Species Reactivity	Human
Purification	Affinity purified
Conjugate	Biotin
Applications	IEP, ELISA
Format	Liquid
Size	100 µg
Buffer	Phosphate-buffered saline containing 1 mg/mL bovine albumin and 0.1% sodium azide, pH 7.4.
Preservative	0.1% Sodium Azide
Storage	Store at 2°C to 8°C.

BACKGROUND

Introduction	Tissue-type plasminogen activator (tPA) is one of two major physiologic activators of plasminogen in plasma. It is a serine protease of 68 kDa produced primarily in endothelial cells but is also present in monocytes and megakaryocytes. Normal plasma tPA antigen concentrations have been reported from 20 ng/ml to 5 µg/ml, depending on the assay used, but typically most of the tPA (> 90%) is in complex with it's primary inhibitor, plasminogen activator inhibitor-1 (PAI-1). Structurally, tPA is a single-chain enzyme that consists of a catalytic domain followed by two kringle structures, an EGF domain and a finger domain. The activation of plasminogen by tPA is dependent on the presence of a fibrin cofactor. The binding of both tPA and plasminogen to fibrin is mediated in part through lysine binding sites within the kringle structures of both enzyme and substrate, but also through the finger domain of tPA. Activation of plasminogen by tPA occurs by cleavage after residue Arg560 to produce the two-chain active serine protease plasmin. The activity of tPA is regulated in part by a very short half life in circulation (t½ of ~4 minutes) and by circulating protease inhibitors PAI-1 and to a lesser extent α2 macroglobulin.
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Keywords	PLAT;plasminogen activator, tissue;tPA;AU020998;AW212668;D8Ert2e;tissue-type plasminogen activator;t-plasminogen activator;
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GENE INFORMATION

Entrez Gene ID	5327
UniProt ID	P00750