



Anti-PLAT monoclonal antibody, clone 3B154 (DMAB2450MH)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes tissue-type plasminogen activator, a secreted serine protease which converts the proenzyme plasminogen to plasmin, a fibrinolytic enzyme. Tissue-type plasminogen activator is synthesized as a single chain which is cleaved by plasmin to a two chain disulfide linked protein. This enzyme plays a role in cell migration and tissue remodeling. Increased enzymatic activity causes hyperfibrinolysis, which manifests as excessive bleeding; decreased activity leads to hypofibrinolysis which can result in thrombosis or embolism. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.
Specificity	Recognizes Human tPA. Does not crossreact with mouse tPA.
Immunogen	Recombinant human tPA
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	3B154
Purification	>98% pure (SDS-PAGE). Protein A chromatography
Conjugate	Unconjugated
Applications	Suitable for use in ELISA and Western blot (non-reducing) of both free and complexed forms of human tPA. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded. Centrifuge before opening to ensure complete recovery of vial contents.

Recommended pairs for sandwich immunoassay:

- **Capture**
[DMAB2450MH](#)
- **Detection**
[DPAB0808RH](#)

Format	Purified, Liquid
Concentration	3.1mg/ml (OD280nm, E0.1% = 1.36)
Size	1 mg
Buffer	0.05M Sodium phosphate, pH 6.6 containing 0.1M Sodium chloride, 1mM EDTA
Preservative	None
Storage	Store at -70°C. Avoid multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	PLAT plasminogenactivator, tissue [Homo sapiens]
Official Symbol	PLAT
Synonyms	TPA; T-PA; DKFZp686I03148; PLAT; tissue-type plas- minogen activator; alteplase; reteplase; OTTHUMP000- 00225783; OTTHUMP00000225784; OTTHUMP00000- 225785; OTTHUMP00000225786; OTTHUMP00000- 225787; OTTHUMP00000225788; t-plasminogen activa- tor; plasminogen activator, tissue type; tissue plasminogen activator (t-PA)
Entrez Gene ID	5327
Protein Refseq	NP_000921
UniProt ID	P00750
Chromosome Location	8p12
Pathway	Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism- specific biosystem; Complement and coagulation casca- des, organism- specific biosystem; Complement and coa- gulation cascades, conserved biosystem; Dissolution of Fibrin Clot, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Hemostasis, organism-specific biosystem; Selenium Pathway, orga- nism-specific biosystem; Senescence and Autophagy, organism-specific biosy
Function	peptidase activity; protein binding; serine-type endopep- tidase activity