

Human tPA Antibody Pair Set

Catalog No. E-KAB-0273

Applications

ELISA

Synonyms PLAT, T-PA, TPA

Kit components & Storage

Title	Specifications	Storage
Human tPA Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human tPA Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze / thaw cycles.

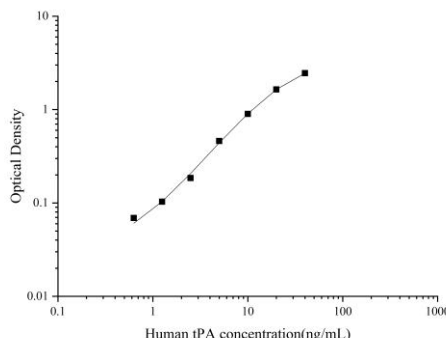
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0273)	
		Human tPA Capture Antibody	Human tPA Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human tPA protein	Recombinant Human tPA protein
	Swissprot	P00750	
Product details	Reactivity	Human	Human
	Host	Rabbit	Rabbit
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A or G	Protein A or G
	Specificity	Detects Human tPA in ELISAs.	

Applications

Human tPA Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Human tPA Capture Antibody	 <p>The graph displays a standard curve for the Human tPA Sandwich ELISA Assay. The x-axis represents Human tPA concentration in ng/mL, ranging from 0.1 to 1000 on a logarithmic scale. The y-axis represents Optical Density, ranging from 0.01 to 10 on a logarithmic scale. The data points form a straight line, indicating a linear relationship between the concentration of Human tPA and the resulting Optical Density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human tPA concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>0.5</td> <td>0.05</td> </tr> <tr> <td>1</td> <td>0.1</td> </tr> <tr> <td>2</td> <td>0.2</td> </tr> <tr> <td>5</td> <td>0.5</td> </tr> <tr> <td>10</td> <td>1.0</td> </tr> <tr> <td>20</td> <td>2.0</td> </tr> <tr> <td>50</td> <td>5.0</td> </tr> </tbody> </table>	Human tPA concentration (ng/mL)	Optical Density	0.5	0.05	1	0.1	2	0.2	5	0.5	10	1.0	20	2.0	50	5.0
Human tPA concentration (ng/mL)	Optical Density																		
0.5	0.05																		
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50	5.0																		
ELISA Detection	1:1000-1:10000	Human tPA Detection Antibody (Biotin)																	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

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.