

Human TNNC1 Antibody Pair Set

Catalog No.	E-KAB-0546	Applications	ELISA
Synonyms	ctnC;DDB_G0276479;Countin-3		

Kit components & Storage

Title	Specifications	Storage
Human TNNC1 Capture Antibody	1 vial, 100 µg	Store at -20°C for one year. Avoid freeze/thaw cycles.
Human TNNC1 Detection Antibody (Biotin)	1 vial, 50 µL	Store at -20°C for one year. Avoid freeze/thaw cycles.

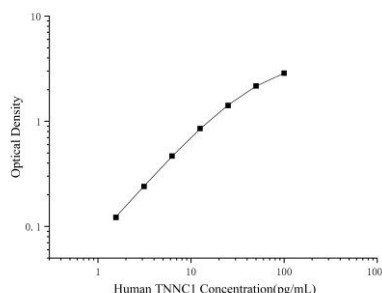
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0546)	
		Human TNNC1 Capture Antibody	Human TNNC1 Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human TNNC1 protien	Recombinant Human TNNC1 protien
	Swissprot	NP_003271.1	
Product details	Reactivity	Human	Human
	Host	Rabbit	Mouse
	Conjugation	Unconjugated	Biotin
	Concentration	0.5 mg/mL	/
	Buffer	PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5	PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5
	Purify	Antigen Affinity	Protein A or G
	Specificity	Detects Human TNNC1 in ELISAs.	

Applications

Human TNNC1 Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Human TNNC1 Capture Antibody	 <p>The graph is a log-log plot. The x-axis is labeled 'Human TNNC1 Concentration(pg/mL)' and ranges from 1 to 1000. The y-axis is labeled 'Optical Density' and ranges from 0.1 to 10. The data points form a smooth, upward-sloping curve, indicating a positive correlation between concentration and optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human TNNC1 Concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <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> <tr><td>100</td><td>10.0</td></tr> </tbody> </table>	Human TNNC1 Concentration (pg/mL)	Optical Density	1	0.1	2	0.2	5	0.5	10	1.0	20	2.0	50	5.0	100	10.0
Human TNNC1 Concentration (pg/mL)	Optical Density																		
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ELISA Detection	1:1000-1:10000	Human TNNC1 Detection Antibody (Biotin)																	

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

Background

Troponin (Tn) is a regulatory protein of muscle contraction. It is located on the fine myofilaments of the contractile protein and plays an important regulatory role in the process of muscle contraction and relaxation. It contains three subtypes: fast response, slow response and cardiac troponin (cTn). The first two are associated with skeletal muscle, while cardiac troponin is found only in cardiomyocytes and is a complex composed of three subunits: troponin T (cTnT), troponin I (cTnI), and troponin C (cTnC). cTnT and cTnI are antigens specific to cardiomyocytes that degrade from myocardial fibers when cardiomyocytes are damaged. The increase of cTn in serum reflects the damage of cardiomyocytes, and its specificity and sensitivity are higher than those of the commonly used myocardial enzyme profiles.