

Human NT-proBNP Antibody Pair Set

Catalog No. E-KAB-0132

Applications

ELISA

Synonyms NT-Pro-BNP

Kit components & Storage

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

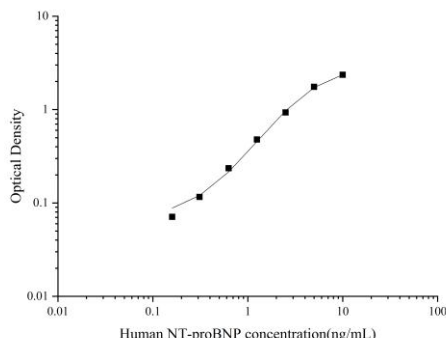
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0132)	
		Human NT-proBNP Capture Antibody	Human NT-proBNP Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human NT-proBNP protein	Recombinant Human NT-proBNP protein
	Swissprot	P16860(NPPB)	
Product details	Reactivity	Human	Human
	Host	Mouse	Mouse
	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 NT-proBNP in ELISAs.	

Applications

Human NT-proBNP Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Human NT-proBNP Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human NT-proBNP concentration (ng/mL). The x-axis ranges from 0.01 to 100 ng/mL, and the y-axis ranges from 0.01 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 NT-proBNP concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>0.1</td> <td>0.08</td> </tr> <tr> <td>0.2</td> <td>0.12</td> </tr> <tr> <td>0.5</td> <td>0.25</td> </tr> <tr> <td>1</td> <td>0.45</td> </tr> <tr> <td>2</td> <td>0.8</td> </tr> <tr> <td>5</td> <td>1.5</td> </tr> <tr> <td>10</td> <td>2.5</td> </tr> </tbody> </table>	Human NT-proBNP concentration (ng/mL)	Optical Density	0.1	0.08	0.2	0.12	0.5	0.25	1	0.45	2	0.8	5	1.5	10	2.5
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ELISA Detection	1:1000-1:10000	Human NT-proBNP Detection Antibody (Biotin)																	

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

Background

Brain-type Natriuretic Peptide (BNP) is a nonglycosylated peptide that is produced predominantly by ventricular myocytes and belongs to the natriuretic peptide family. Proteolytic cleavage of the 12 kDa BNP precursor gives rise to N-terminal proBNP (NT-proBNP) and mature BNP. Plasma NT-proBNP is a marker for congestive heart failure, while mature BNP (aa 103 - 134) promotes vasodilation and fluid and sodium excretion. Human BNP precursor shares 29% and 51% aa sequence identity with mouse and porcine BNP precursor, respectively.