

Human CTSD Antibody Pair Set

Catalog No. E-KAB-0504

Applications

ELISA

Synonyms CLN10;CPSD

Kit components & Storage

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

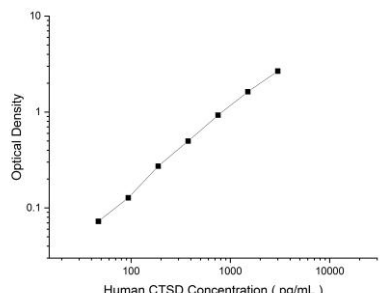
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0504)	
		Human CTSD Capture Antibody	Human CTSD Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human CTSD protien	Recombinant Human CTSD protien
	Swissprot	P07339	
Product details	Reactivity	Human	Human
	Host	Mouse	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	Protein A or G	Protein A or G
	Specificity	Detects Human CTSD in ELISAs.	

Applications

Human CTSD Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4 µg/mL	Human CTSD Capture Antibody	 <p>The graph displays a standard curve for the Human CTSD Sandwich ELISA Assay. The x-axis represents Human CTSD Concentration in pg/mL on a logarithmic scale from 100 to 10,000. The y-axis represents Optical Density on a logarithmic scale from 0.1 to 10. The data points form a straight line, indicating a linear relationship between the concentration of Human CTSD and the resulting optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human CTSD Concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>0.1</td> </tr> <tr> <td>200</td> <td>0.2</td> </tr> <tr> <td>500</td> <td>0.5</td> </tr> <tr> <td>1000</td> <td>1.0</td> </tr> <tr> <td>2000</td> <td>2.0</td> </tr> <tr> <td>5000</td> <td>5.0</td> </tr> <tr> <td>10000</td> <td>10.0</td> </tr> </tbody> </table>	Human CTSD Concentration (pg/mL)	Optical Density	100	0.1	200	0.2	500	0.5	1000	1.0	2000	2.0	5000	5.0	10000	10.0
Human CTSD Concentration (pg/mL)	Optical Density																		
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10000	10.0																		
ELISA Detection	1:1000-1:10000	Human CTSD 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 a member of the A1 family of peptidases. The encoded preproprotein is proteolytically processed to generate multiple protein products. These products include the cathepsin D light and heavy chains, which heterodimerize to form the mature enzyme. This enzyme exhibits pepsin-like activity and plays a role in protein turnover and in the proteolytic activation of hormones and growth factors. Mutations in this gene play a causal role in neuronal ceroid lipofuscinosis-10 and may be involved in the pathogenesis of several other diseases, including breast cancer and possibly Alzheimer's disease.