

Human CTSB Antibody Pair Set

Catalog No. E-KAB-0019

Applications

ELISA

Synonyms APPS, CPSB

Kit components & Storage

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

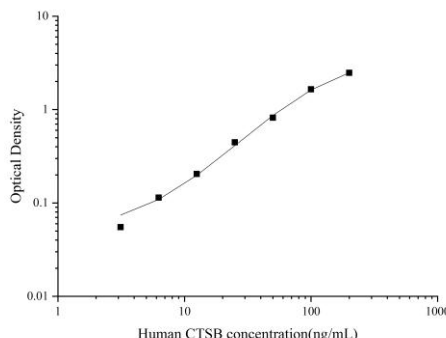
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0019)	
		Human CTSB Capture Antibody	Human CTSB Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human CTSB protein	Recombinant Human CTSB protein
	Swissprot	P07858	
Product details	Reactivity	Human	Human
	Host	Mouse	Goat
	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	Antigen Affinity
	Specificity	Detects Human CTSB in ELISAs.	

Applications

Human CTSB Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images										
ELISA Capture	0.5-4µg/mL	Human CTSB Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human CTSB concentration (ng/mL). The x-axis ranges from 1 to 1000 ng/mL, and the y-axis ranges from 0.01 to 10. The data points show a clear upward trend, indicating a positive correlation between the concentration of Human CTSB and the resulting optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human CTSB concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.05</td> </tr> <tr> <td>10</td> <td>0.2</td> </tr> <tr> <td>100</td> <td>0.8</td> </tr> <tr> <td>1000</td> <td>3.0</td> </tr> </tbody> </table>	Human CTSB concentration (ng/mL)	Optical Density	1	0.05	10	0.2	100	0.8	1000	3.0
Human CTSB concentration (ng/mL)	Optical Density												
1	0.05												
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100	0.8												
1000	3.0												
ELISA Detection	1:1000-1:10000	Human CTSB Detection Antibody (Biotin)											

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

Background

The protein encoded by this gene is a lysosomal cysteine proteinase composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. It is also known as amyloid precursor protein secretase and is involved in the proteolytic processing of amyloid precursor protein (APP). Incomplete proteolytic processing of APP has been suggested to be a causative factor in Alzheimer disease, the most common cause of dementia. Overexpression of the encoded protein, which is a member of the peptidase C1 family, has been associated with esophageal adenocarcinoma and other tumors. At least five transcript variants encoding the same protein have been found for this gene.