# 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℃ for one year. Avoid freeze/thaw cycles. |
| Human CTSD Detection Antibody (Biotin) | 1 vial, 50 μL | Store at -20℃ 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. | |


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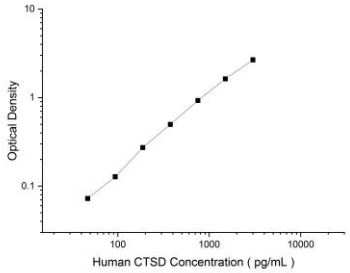
## Applications

Human CTSD Sandwich ELISA Assay

| | Recommended Concentration/Dilution | Reagent | Images |
|---|---|---|---|
| ELISA Capture | 0.5-4 μg/mL | Human CTSD Capture Antibody |  |
| 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.



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