

# Cathepsin B Polyclonal Antibody(Capture/Detector)

catalog number: AN000530P

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

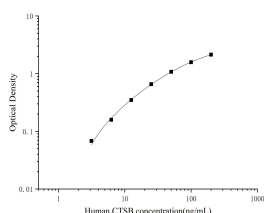
## Description

|                     |                                                                    |
|---------------------|--------------------------------------------------------------------|
| <b>Reactivity</b>   | Human                                                              |
| <b>Immunogen</b>    | Recombinant Human Cathepsin B protein expressed by Mammalian       |
| <b>Host</b>         | Rabbit                                                             |
| <b>Isotype</b>      | Rabbit IgG                                                         |
| <b>Purification</b> | Antigen Affinity Purification                                      |
| <b>Conjugation</b>  | Unconjugated                                                       |
| <b>buffer</b>       | Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300. |

## Applications

|                       |               |
|-----------------------|---------------|
| <b>ELISA Capture</b>  | 2-8 µg/mL     |
| <b>ELISA Detector</b> | 0.1-0.4 µg/mL |

## Data



Sandwich ELISA-Recombinant Human Cathepsin B protein standard curve. Background subtracted standard curve using Cathepsin B antibody(AN000530P)(Capture), Cathepsin B antibody(AN000530P)(Detector) in sandwich ELISA. The reference range value for Recombinant Human Cathepsin B protein is 3.13-200 ng/mL.

## Preparation & Storage

|                 |                                                                                                          |
|-----------------|----------------------------------------------------------------------------------------------------------|
| <b>Storage</b>  | Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.       |
| <b>Shipping</b> | The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended. |

## Background

CTSB(Cathepsin B) is also named as CPSB and belongs to the peptidase C1 family. It participates in intracellular degradation and turnover of proteins. Cathepsin B precursors found in human malignant ascites fluid do not possess mannose-rich carbohydrates suggesting that a defect in the post translational processing of carbohydrate moieties on tumor. Cathepsin B exists as both glycosylated and unglycosylated forms. In rat macrophages and hepatocytes pro-cathepsin B is 39 kDa (unglycosylated=35 kDa), whereas in human fibroblasts procathepsin B is 44.5-46kDa (unglycosylated=39kDa). It can be detected the 43 kDa form of pro-CTSB, 31 kDa and 25 kDa mature forms in mouse brain by western blot.

## For Research Use Only