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# Rat CTSL (Cathepsin L) ELISA Kit

**Cat #:** G-EC-05199

**Species:** Rat

**Sensitivity:** 0.38ng/mL

**Type:** Sandwich

**Range:** 0.63~40ng/mL

**Detection:** Colormetric

**Duration:** 3.5h

**Principle:**
This ELISA kit uses the Sandwich-ELISA principle. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Rat CTSL. Samples (or Standards) are added to the micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for Rat CTSL and Avidin-Horseradish Peroxidase (HRP) conjugate are added successively to each micro plate well and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Rat CTSL, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of stop solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 ± 2 nm. The OD value is proportional to the concentration of Rat CTSL. You can calculate the concentration of Rat CTSL in the samples by comparing the OD of the samples to the standard curve.

**Specificity:**
This kit recognizes Rat CTSL in samples. No significant cross-reactivity or interference between Rat CTSL and analogues was observed.

**UniProt ID:** P07154

**Gene:** CTSL

**Synonyms:** CTSL1, CATL, MEP

**Specimen:** Serum, plasma and other biological fluids

**Application:** This ELISA kit applies to the in vitro quantitative determination of Rat CTSL concentrations in Serum, plasma and other biological flu

**Research Areas:** Cancer, Neuroscience, Signal transduction

**Storage:**
An unopened kit can be stored at 2-8°C for 1 month. If the kit is not supposed to be used within 1 month, store the items separately according to the storage table in the manual once the kit is received.