

Datasheet for ABIN6239914

Cathepsin L2 Protein (CTSL2) (AA 64-334) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	Cathepsin L2 (CTSL2)
Protein Characteristics:	AA 64-334
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This Cathepsin L2 protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 95 %
Biological Activity Comment:	Cathepsin V (CTSV) is a lysosomal cysteine proteinase which belongs to peptidase C1 family. It is expressed in normal human thymus, testis and corneal epithelium. Cathepsin V plays an important role in corneal physiology and mediates degradation of invariant chain in human thymus. Besides, Retinoblastoma Protein 1 (RB1) has been identified as an interactor of CTSV, thus a binding ELISA assay was conducted to detect the interaction of recombinant human CTSV and recombinant human RB1. Briefly, CTSV were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to RB1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-CTSV pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution,

Product Details

wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450nm immediately. The binding activity of CTSV and RB1 was shown in Figure 1, and this effect was in a dose dependent manner. The binding activity of CTSV with RB1.

Target Details

Target:	Cathepsin L2 (CTSL2)
Alternative Name:	Cathepsin V (CTSV) (CTSL2 Products)
Background:	Alternative Names: CTS-L2, CTSL2, CATL2, CTSU, CTS-V, Cathepsin L2
Molecular Weight:	32kDa
UniProt:	O60911
Pathways:	Toll-Like Receptors Cascades

Application Details

Application Notes:	Isoelectric Point: 8.8
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

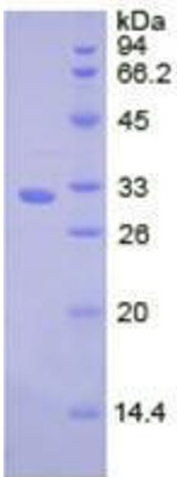


Image 1.