

Datasheet for ABIN6239882

**CAPNL1 Protein (AA 75-356) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	50 µg
Target:	CAPNL1
Protein Characteristics:	AA 75-356
Origin:	Rat
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This CAPNL1 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:	Calpain 1, Large Subunit (CAPN1) is an intracellular protease that requires calcium for its catalytic activity. Calcium-regulated non-lysosomal thiol-protease which catalyze limited proteolysis of substrates involved in cytoskeletal remodeling and signal transduction. It has broad endopeptidase specificity. Besides, Signal Transducer And Activator Of Transcription 3 (STAT3) has been identified as an interactor of CAPN1, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat CAPN1 and recombinant rat STAT3. Briefly, CAPN1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to STAT3-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-CAPN1 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated

## Product Details

and washed 3 times. With the addition of substrate solution, 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 CAPN1 and STAT3 was shown in Figure 1, and this effect was in a dose dependent manner. The binding activity of CAPN1 with STAT3.

## Target Details

Target:	CAPNL1
Alternative Name:	Calpain 1, Large Subunit (CAPN1) ( <a href="#">CAPNL1 Products</a> )
Background:	Alternative Names: PIG30, CANPL1, MuCANP, MuCL, Calpain-1 Catalytic Subunit, Calcium-Dependent Protease 1, Calcium-activated neutral proteinase 1, Calpain mu-type, Micromolar-calpain
Molecular Weight:	33kDa
UniProt:	<a href="#">P97571</a>
Pathways:	<a href="#">Apoptosis</a>

## Application Details

Application Notes:	Isoelectric Point: 5.3
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.

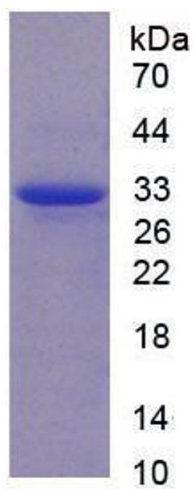


Image 1.