

For Research Use Only

# Cystatin B Monoclonal antibody

Catalog Number: 66812-1-Ig



## Basic Information

<b>Catalog Number:</b> 66812-1-Ig	<b>GenBank Accession Number:</b> BC003370	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 2300 µg/ml	<b>GeneID (NCBI):</b> 1476	<b>CloneNo.:</b> 2G9B8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P04080	<b>Recommended Dilutions:</b> WB 1:1000-1:3000 IF 1:400-1:1600
<b>Isotype:</b> IgG1	<b>Full Name:</b> cystatin B (stefin B)	
<b>Immunogen Catalog Number:</b> AG21291	<b>Calculated MW:</b> 11 kDa	
	<b>Observed MW:</b> 11-14 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, WB, ELISA	<b>Positive Controls:</b> WB : U-937 cells, human saliva tissue, THP-1 cells IF : A431 cells,
<b>Species Specificity:</b> Human	

## Background Information

Cystatin B (CSTB), a member of the cystatin superfamily protein, is a stefin that functions as an intracellular thiol protease inhibitor and has been thought to play a role in protecting against the proteases leaking from lysosomes. CSTB plays various functions in a variety of diseases, including epithelial ovarian cancer, colon cancer, and myoclonus epilepsy. Evidence indicates that mutations in CSTB are responsible for the primary defects in patients with progressive myoclonic epilepsy (EPM1). One type of mutation responsible for EPM1 is the expansion in the promoter region of this gene of a CCCCCCCCCG repeat from 2-3 copies to 30-78 copies.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

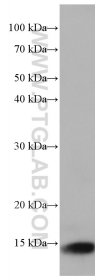
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

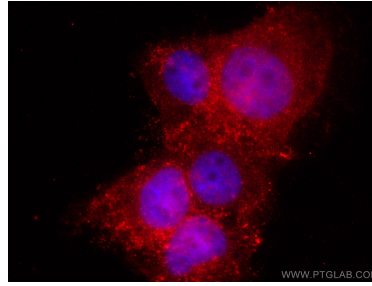
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



U-937 cells were subjected to SDS PAGE followed by western blot with 66812-1-Ig (Cystatin B antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed A431 cells using Cystatin B antibody (66812-1-Ig, Clone: 2G9B8 ) at dilution of 1:800 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).