

Cystatin B Monoclonal antibody

Catalog Number: 66812-1-Ig

Basic Information

Catalog Number:	66812-1-Ig	GenBank Accession Number:	BC003370	Purification Method:	Protein G purification
Size:	2300 ug/ml	GeneID (NCBI):	1476	CloneNo.:	2G9B8
Source:	Mouse	UNIPROT ID:	P04080	Recommended Dilutions:	WB 1:1000-1:3000
Isotype:	IgG1	Full Name:	cystatin B (stefin B)	IHC 1:250-1:1000	IF/ICC 1:400-1:1600
Immunogen Catalog Number:	AG21291	Calculated MW:	11 kDa		
		Observed MW:	11-14 kDa		

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Species Specificity:
human

**Note-IHC: suggested antigen retrieval with
TE buffer pH 9.0; (*) Alternatively, antigen
retrieval may be performed with citrate
buffer pH 6.0**

Positive Controls:

WB : U-937 cells, human saliva tissue, THP-1 cells

IHC : human skin cancer tissue,

IF/ICC : A431 cells,

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:

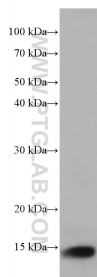
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

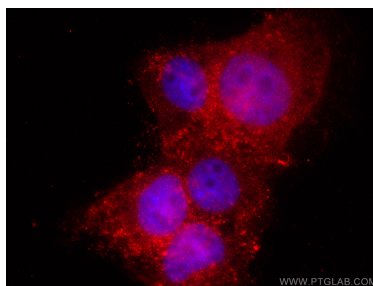
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

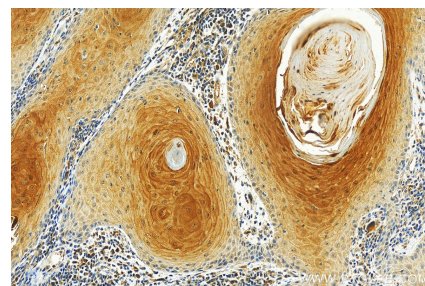
Selected Validation Data



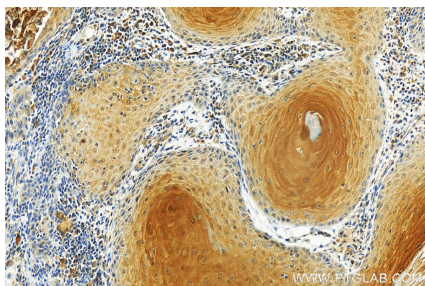
U-937 cells were subjected to SDS PAGE followed by western blot with 66812-1-Ig (Cystatin B antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



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).



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 66812-1-Ig (Cystatin B antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded skin cancer slide using 66812-1-Ig (Cystatin B antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).