

For Research Use Only

CoraLite®594-conjugated PSMB8 Monoclonal antibody



Catalog Number:CL594-66759

Basic Information

Catalog Number:

CL594-66759

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG6780

GenBank Accession Number:

BC001114

GeneID (NCBI):

5696

UNIPROT ID:

P28062

Full Name:

proteasome (prosome, macropain)
subunit, beta type, 8 (large
multifunctional peptidase 7)

Calculated MW:

30 kDa

Observed MW:

23 kDa

Purification Method:

Protein G purification

CloneNo.:

2A5B6

Recommended Dilutions:

IF-P 1:50-1:500

IF/ICC 1:50-1:500

Excitation/Emission maxima
wavelengths:

588 nm / 604 nm

Applications

Tested Applications:

IF/ICC, FC (Intra)

Species Specificity:

human, mouse

Positive Controls:

IF-P : human liver cancer tissue,

IF/ICC : C2C12 cells, human liver cancer tissue, HeLa
cells

Background Information

PSMB8(Proteasome subunit beta type-8) is also named as LMP7, PSMB5i, RING10, Y2 and belongs to the peptidase T1B family. The gene encodes the chymotrypsin-like catalytic subunit of the immunoproteasome(PMID: 19525961). PSMB8 has a role in controlling pathogenic immune responses and may be a target in autoimmune disorders. Its prosequence is not essential for incorporation of PSMB8 into the maturing proteasome, but it increased the efficiency of PSMB8 incorporation and proteasome maturation(PMID: 10926487). The pro-PSMB8 is a 276aa protein with the molecular mass of 30 kDa, and the mature form is about 23kDa due to the 72aa propeptide cleaved. Defects in PSMB8 are the cause of Nakajo syndrome (NKJO).

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

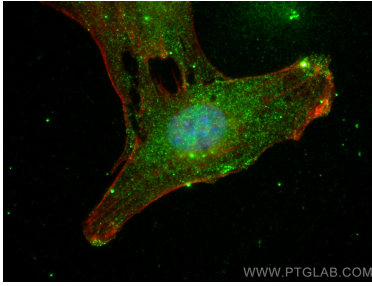
T: 4006900926

E: Proteintech-CN@ptglab.com

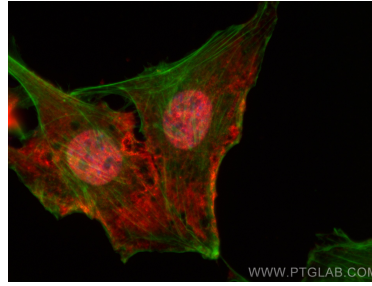
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

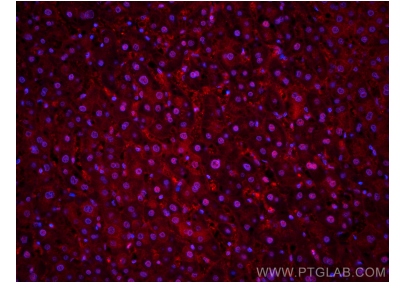
Selected Validation Data



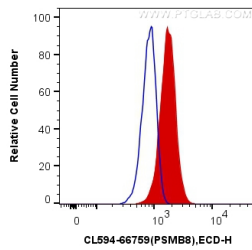
N/A



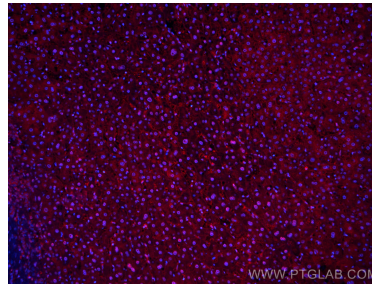
Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using CoraLite®594 PSMB8 antibody (CL594-66759, Clone: 2A5B6) at dilution of 1:200, CL488-phalloidin (blue).



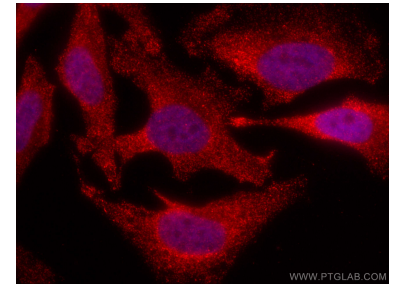
Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using CoraLite®594 PSMB8 antibody (CL594-66759, Clone: 2A5B6) at dilution of 1:200.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human PSMB8 (CL594-66759, Clone:2A5B6) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using CoraLite®594 PSMB8 antibody (CL594-66759, Clone: 2A5B6) at dilution of 1:200.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite®594 PSMB8 antibody (CL594-66759, Clone: 2A5B6) at dilution of 1:200.