

For Research Use Only

PSMB8 Monoclonal antibody

Catalog Number: 66759-1-Ig



Basic Information

Catalog Number: 66759-1-Ig	GenBank Accession Number: BC001114	Purification Method: Protein G purification
Size: 150ul, Concentration: 1600 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5696	CloneNo.: 2A5B6
Source: Mouse	Full Name: proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional peptidase 7)	Recommended Dilutions: WB 1:5000-1:20000 IHC 1:500-1:2000 IF 1:400-1:1600
Isotype: IgG1	Calculated MW: 30 kDa	
Immunogen Catalog Number: AG6780	Observed MW: 23 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Species Specificity:

Human, mouse, rat

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: Jurkat cells, HSC-T6 cells, Raji cells, Ramos cells

IHC: human lung cancer tissue, human liver cancer tissue, human oesophagus cancer tissue, mouse colon tissue, mouse stomach tissue, rat colon tissue, rat stomach tissue

IF: C2C12 cells, human liver cancer tissue, human lung 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. 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

*** 20ul sizes contain 0.1% BSA

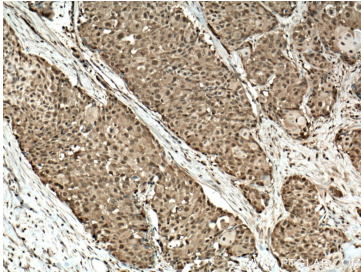
For technical support and original validation data for this product please contact:

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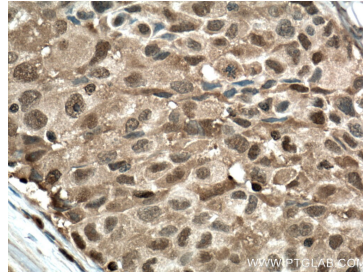
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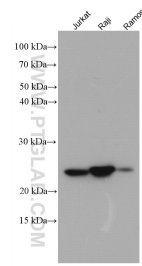
Selected Validation Data



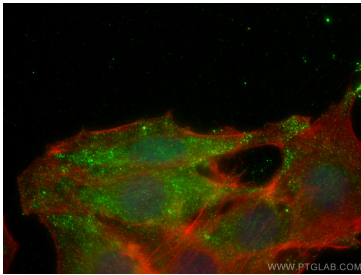
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66759-1-Ig (PSMB8 antibody) at dilution of 1:1000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 66759-1-Ig (PSMB8 antibody) at dilution of 1:1000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 66759-1-Ig (PSMB8 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using PSMB8 antibody (66759-1-Ig, Clone: 2A5B6) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).