For Research Use Only

PSMB7 Monoclonal antibody

Catalog Number: 68641-1-Ig



Basic Information

Catalog Number: 68641-1-lg

BC000509 GeneID (NCBI): Size: 1000 ug/ml 5695 **UNIPROT ID:** Source: Mouse Q99436

Full Name: Isotype: lgG1 proteasome (prosome, macropain)

subunit, beta type, 7 Immunogen Catalog Number: AG6544 Calculated MW:

29.9 kDa Observed MW: 28-30 kDa

GenBank Accession Number:

Applications

Tested Applications: WB, IHC, 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: HCT 116 cells, HeLa cells, LNCaP cells, HepG2 cells, HEK-293 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells

Purification Method:

Protein G purification

Recommended Dilutions:

WB 1:5000-1:50000 IHC 1:1000-1:4000

CloneNo.:

3D7B8

IHC: human colon cancer tissue, human skin cancer tissue

Background Information

The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. PSMB7 protein is a member of the proteasome B-type family, also known as the T1B family, and is a 20S core beta subunit in the proteasome. Expression of this catalytic subunit is downregulated by gamma interferon, and proteolytic processing is required to generate a mature subunit. Component of the 20S core proteasome complex are involved in the proteolytic degradation of most intracellular proteins. PSMB7 displays a trypsin-like activity (PMID:15244466, PMID:27176742, PMID: 8610016)

Storage

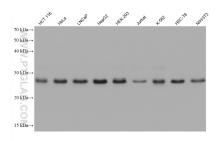
Storage:

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

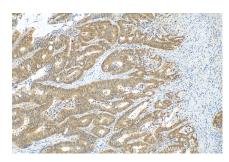
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

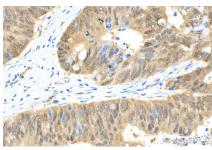
Selected Validation Data



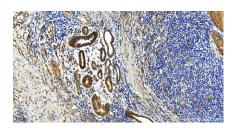
Various lysates were subjected to SDS PAGE followed by western blot with 68641-1-Ig (PSMB7 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 68641-1-Ig (PSMB7 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 68641-1-Ig (PSMB7 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded skin cancer slide using 68641-1-1g (PSMB7 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).