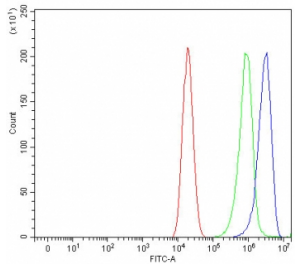
PSMB7 Antibody / Proteasome 20S beta 7 [clone 3H6C8] (RQ7689)

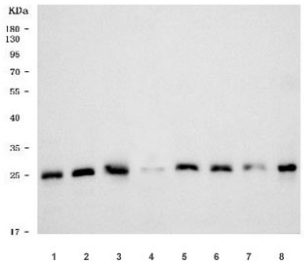
Catalog No.	Formulation	Size
RQ7689	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Monkey
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	3H6C8
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q99436
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This PSMB7 antibody is available for research use only.



Flow cytometry testing of human Caco-2 cells with PSMB7 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PSMB7 antibody.



Western blot testing of 1) human HepG2, 2) human HeLa, 3) human PC-3, 4) monkey COS-7, 5) rat brain, 6) rat liver, 7) mouse brain and 8) mouse liver tissue lysate with PSMB7 antibody. Predicted molecular weight ~30 kDa.

Description

Proteasome subunit beta type-7 as known as 20S proteasome subunit beta-2 is a protein that in humans is encoded by the PSMB7 gene. The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. The encoded 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. A pseudogene of this gene is located on the long arm of chromosome 14.

Application Notes

Optimal dilution of the PSMB7 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids D17-S277) was used as the immunogen for the PSMB7 antibody.

Storage

After reconstitution, the PSMB7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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