

Mouse Proteasome 20S beta 7/PSMB7 Monoclonal Antibody | anti-PSMB7 antibody

Anti-Proteasome 20S beta 7/PSMB7 Antibody Picoband (monoclonal, 3H6C8)

CATALOG # AAA126955	HOST Mouse	REACTIVITY Human, Monkey, Mouse, Rat	APPLICATIONS Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

Proteasome 20S beta 7/PSMB7; Monoclonal Antibody; Anti-Proteasome 20S beta 7/PSMB7 Antibody Picoband (monoclonal; 3H6C8); anti-PSMB7 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Monkey, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	3H6C8
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-PSMB7 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Proteasome 20S beta 7/PSMB7 recombinant protein (Position: D17-S277).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of CACO-2 cells using anti-PSMB7 antibody (AAA126955).Overlay histogram showing CACO-2 cells stained with AAA126955 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-PSMB7 Antibody (AAA126955, 1 ug/1x10^6 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of Proteasome 20S beta 7/PSMB7 using anti-Proteasome 20S beta 7/PSMB7 antibody (AAA126955).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HepG2 whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human PC-3 whole cell lysates,Lane 4: monkey COS-7 whole cell lysates,Lane 5: rat brain tissue lysates,Lane 6: rat liver tissue lysates,Lane 7: mouse brain tissue lysates,Lane 8: mouse liver tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-Proteasome 20S beta 7/PSMB7 antigen affinity purified monoclonal antibody (#AAA126955) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Proteasome 20S beta 7/PSMB7 at approximately 25 kDa. The expected band size for Proteasome 20S beta 7/PSMB7 is at 30 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PSMB7 antibody	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.
Product Categories/Family for anti-PSMB7 antibody	Primary Antibodies, Mouse Monoclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506203
NCBI GeneID	5695
NCBI Accession #	NP_002790.1
NCBI GenBank Nucleotide #	NM_002799.3
UniProt Accession #	Q99436; Q5TBG6; Q96AG8; Q9BWA7; B4E0P1
Molecular Weight	15,323 Da
NCBI Official Full Name	proteasome subunit beta type-7 proprotein
NCBI Official Synonym Full Names	proteasome (prosome, macropain) subunit, beta type, 7
NCBI Official Symbol	PSMB7
NCBI Official Synonym Symbols	Z
NCBI Protein Information	proteasome subunit beta type-7; macropain chain Z; multicatalytic endopeptidase complex chain Z; proteasome catalytic subunit 2; proteasome subunit Z; proteasome subunit alpha
UniProt Protein Name	Proteasome subunit beta type-7
UniProt Gene Name	PSMB7

UniProt Synonym Gene Names	Z
UniProt Entry Name	PSB7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/proteasome-20s-beta-7-psmb7-antibody-clone-3h6c8-flow-cytometry-western-blot-elisa/126955>