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Proteasome 20S LMP7/PSMB8 Rabbit mAb

Catalog No.: A23378 Recombinant

Basic Information

Observed MW
23kDa

Calculated MW
30kDa

Category
Primary antibody

Applications
ELISA,WB,IHC-P

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC60121

Background

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. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This gene is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 3 (proteasome beta 5 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. Two alternative transcripts encoding two isoforms have been identified; both isoforms are processed to yield the same mature subunit.

Recommended Dilutions

WB	1:2000 - 1:6000
IHC-P	1:100 - 1:500

Immunogen Information

Gene ID
5696

Swiss Prot
P28062

Immunogen
Recombinant protein of human Proteasome 20S LMP7/PSMB8

Synonyms
JMP; ALDD; LMP7; NKJO; D6S216; PRAAS1; PSMB5i; RING10; D6S216E; Proteasome 20S LMP7/PSMB8

Contact

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Product Information

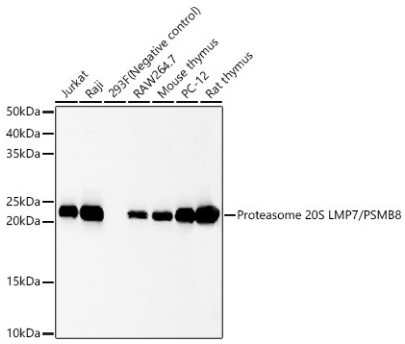
Source
Rabbit

Isotype
IgG

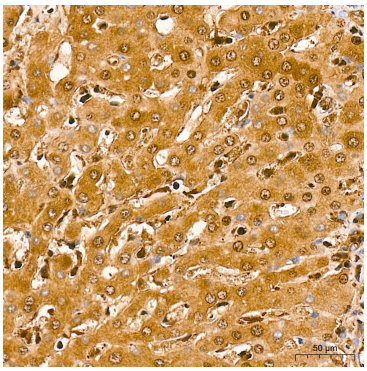
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

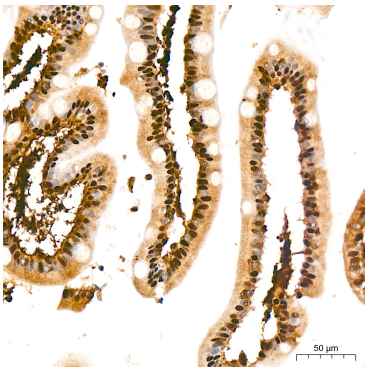
Validation Data



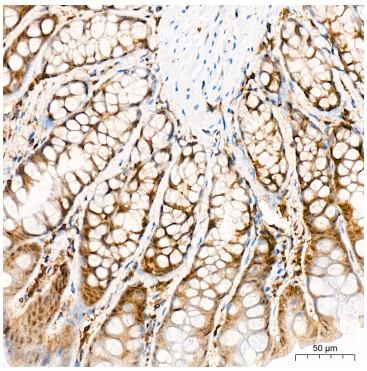
Western blot analysis of various lysates, using Proteasome 20S LMP7/PSMB8 Rabbit mAb (A23378) at 1:5000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



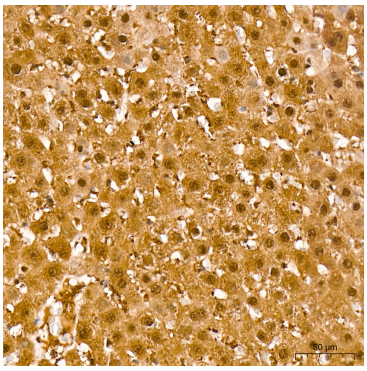
Immunohistochemistry analysis of Proteasome 20S LMP7/PSMB8 in paraffin-embedded human liver tissue using Proteasome 20S LMP7/PSMB8 Rabbit mAb (A23378) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Proteasome 20S LMP7/PSMB8 in paraffin-embedded mouse intestin tissue using Proteasome 20S LMP7/PSMB8 Rabbit mAb (A23378) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Proteasome 20S LMP7/PSMB8 in paraffin-embedded rat colon tissue using Proteasome 20S LMP7/PSMB8 Rabbit mAb (A23378) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Proteasome 20S LMP7/PSMB8 in paraffin-embedded rat liver tissue using Proteasome 20S LMP7/PSMB8 Rabbit mAb (A23378) at a dilution of 1:400 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.