Proteasome 20S LMP7 Rabbit mAb

Catalog No: #49818

Package Size: #49818-1 50ul #49818-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

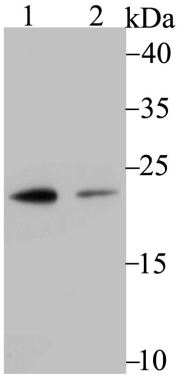
Description

Product Name	Proteasome 20S LMP7 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JB54-32
Purification	ProA affinity purified
Applications	WB,ICC,IF,IHC,FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Other Names	ALDD antibody D6S216 antibody D6S216E antibody Large multifunctional peptidase 7 antibody Large multifunctional protease 7 antibody LMP 7 antibody LMP7 antibody Low molecular mass protein 7 antibody Low molecular weight protein 7 antibody Macropain subunit C13 antibody MGC1491 antibody Multicatalytic endopeptidase complex subunit C13 antibody NKJO antibody OTTHUMP00000062981 antibody Protease component C13 antibody Proteasome (prosome macropain) subunit beta type 8 antibody Proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional peptidase 7) antibody Proteasome beta 8 subunit antibody Proteasome catalytic subunit 3i antibody Proteasome component C13 antibody Proteasome related gene 7 antibody Proteasome subunit beta 5i antibody Proteasome subunit beta 8 antibody Proteasome subunit beta type 8 antibody Proteasome subunit beta type antibody Proteasome subunit beta type-8 antibody Proteasome subunit beta-5i antibody Proteasome subunit Y2 antibody PSB8_HUMAN antibody PSMB 8 antibody PSMB5i antibody PSMB8 antibody Really interesting new gene 10 protein antibody RING 10 antibody RING10 antibody Y2 antibody
Accession No.	Swiss-Prot#:P28062
Uniprot	P28062
GeneID	5696;
Calculated MW	25 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

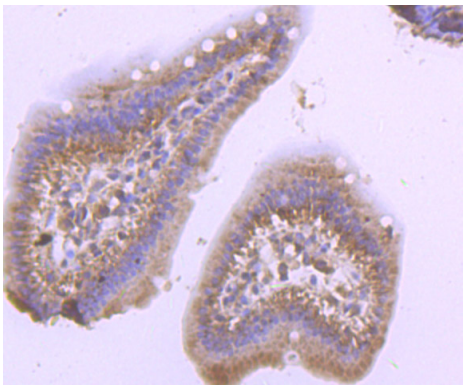
Application Details

WB: 1:500-1:1,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

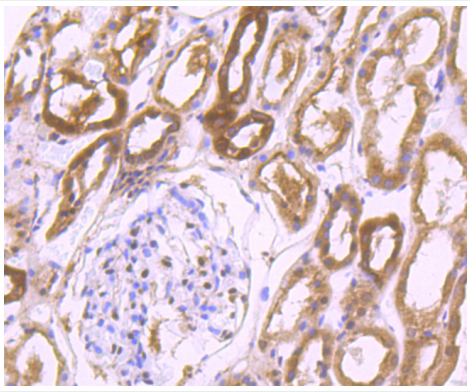
Images



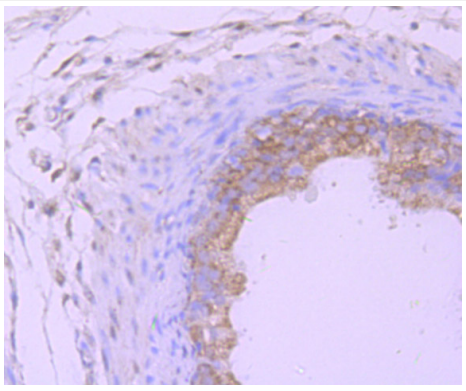
Western blot analysis of Proteasome 20S LMP7 on U937 (1) and A431 (2) cell lysate using anti-Proteasome 20S LMP7 antibody at 1/500 dilution.



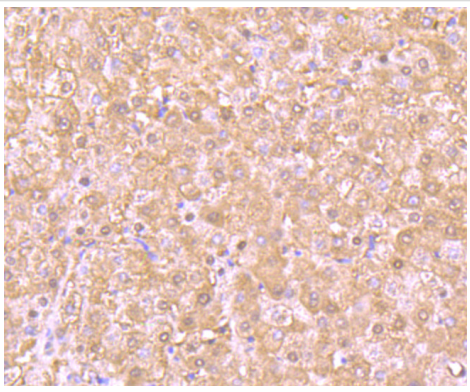
Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-Proteasome 20S LMP7 antibody. Counter stained with hematoxylin.



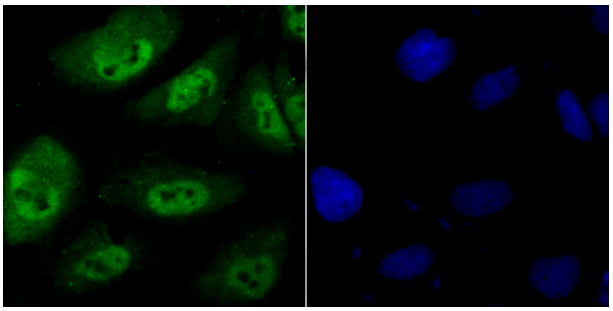
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Proteasome 20S LMP7 antibody. Counter stained with hematoxylin.



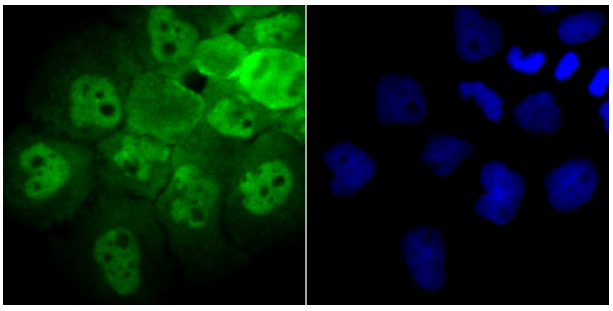
Immunohistochemical analysis of paraffin-embedded rat epididymis tissue using anti-Proteasome 20S LMP7 antibody. Counter stained with hematoxylin.



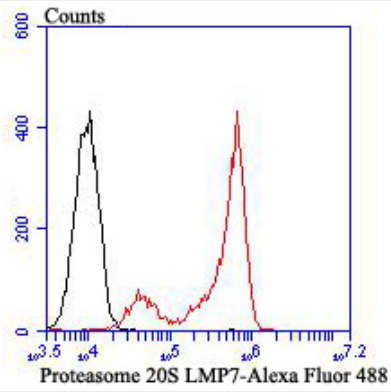
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Proteasome 20S LMP7 antibody. Counter stained with hematoxylin.



ICC staining Proteasome 20S LMP7 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Proteasome 20S LMP7 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Daudi cells with Proteasome 20S LMP7 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

The eukaryotic multi-catalytic proteinase complex, otherwise known as the proteasome, is present in both the nucleus and cytoplasm of cells and contains at least 15 nonidentical subunits, which form a highly ordered ring-shaped structure. The proteasome is involved in an ATP/Ubiquitin-dependent proteolytic pathway and expresses at least five distinct proteolytic activities, including the cleavage of peptides after branched-chain amino acids or bulky hydrophobic amino acids. Two components of the proteasome are the low molecular mass proteins LMP2 and LMP7, which are thought to connect the proteasome to the MHC class-I antigen-processing pathway. Upon stimulation with IFN-γ, LMP2 and LMP7 displace housekeeping subunits in the proteasome and activate cytotoxic T cells (CTLs). LMP2 and LMP7 are produced as precursor proteins, which are processed to subunits that have the ability to complex with the proteasome. LMP2 is expressed as two alternatively spliced forms, LMP2.l and LMP2.s, in lymphoblastoid cell lines and in fibroblasts after IFN-γ stimulation. LMP7 is also expressed as two forms, LMP7A and LMP7B, also designated LMP7-E1 and E2, in several tissues.

References

Note: This product is for in vitro research use only