Data Sheet (Cat.No.TMAC-03441)

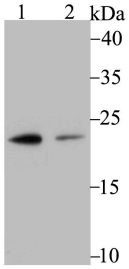
Anti-PSMB8 Antibody (3I410)

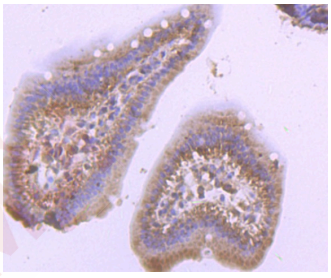
Product Details

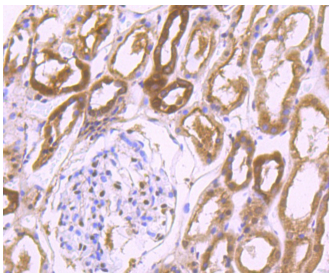
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 25 kDa.
Clone:	3I410
Purification:	ProA affinity purified

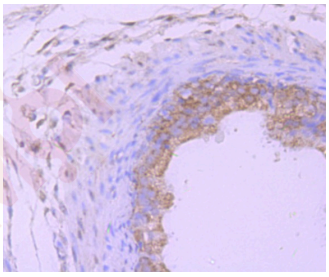
Applications

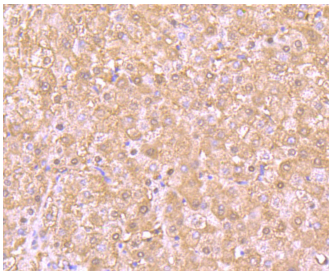
Verified Activity:	1. Western blot analysis of Proteasome 20S LMP7 on U937 (1) and A431 (2) cell lysate using anti-Proteasome 20S LMP7 antibody at 1/500 dilution. 2. Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue using anti-Proteasome 20S LMP7 antibody. Counter stained with hematoxylin. 3. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Proteasome 20S LMP7 antibody. Counter stained with hematoxylin. 4. Immunohistochemical analysis of paraffin-embedded rat epididymis tissue using anti-Proteasome 20S LMP7 antibody. Counter stained with hematoxylin. 5. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Proteasome 20S LMP7 antibody. Counter stained with hematoxylin. 6. 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. 7. 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. 8. 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.

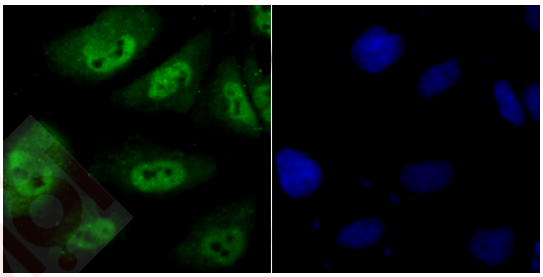


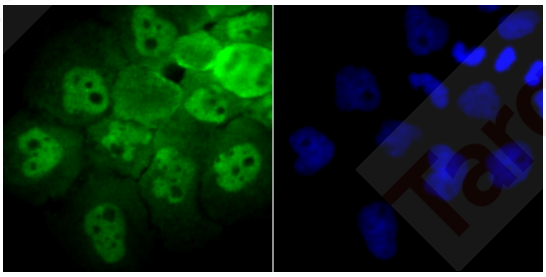


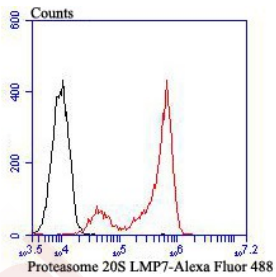












Application: FCM,ICC,IF,IHC,WB

Recommended: WB: 1:500-1000; IHC: 1:50-200; ICC: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P28062

Synonyms: Proteasome subunit beta type-8;PSMB8;Multicatalytic endopeptidase complex subunit C13; LMP7;Low molecular mass protein 7;Proteasome subunit beta-5i;Really interesting new gene 10 protein;PSMB5i;Macropain subunit C13;Y2;RING10;Proteasome component C13

Research 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481