Data Sheet (Cat.No.TMAC-03440)

Anti-Proteasome 20S LMP2 Antibody (3S23)

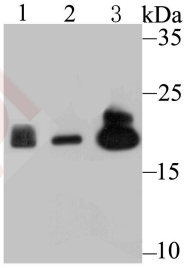
Product Details

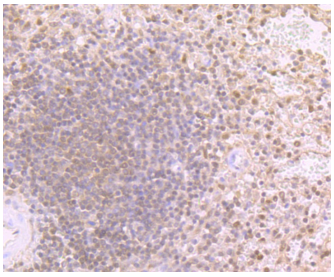
Ig Type:	IgG
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 23 kDa.
Clone:	3S23
Purification:	ProA affinity purified

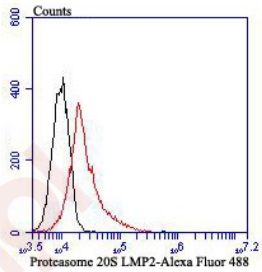
Applications

Verified Activity:

1. Western blot analysis of Proteasome 20S LMP2 on different lysates using anti-Proteasome 20S LMP2 antibody at 1/500 dilution. Positive control: Lane 1: Mouse spleen tissue, Lane 2: U937, Lane 2: Mouse colon tissue.
2. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Proteasome 20S LMP2 antibody. Counter stained with hematoxylin.
3. Flow cytometric analysis of Daudi cells with Proteasome 20S LMP2 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).







Application:	FCM,IHC,IP,WB
Recommended	WB: 1:500-1000; IHC: 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: P28065

Synonyms: Proteasome (prosome macropain) subunit beta type 9;Low molecular mass protein 2; Proteasome subunit beta type 9;Really interesting new gene 12 protein; OTTHUMP00000062982;RING 12;PSMB9;Proteasome subunit beta type-9;Proteasome subunit beta-1i;Proteasome catalytic subunit 1i;Proteasome beta 9 subunit;PSMB6i;Proteasome related gene 2;Large multifunctional peptidase 2;PSB9_HUMAN;proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2);MGC70470;Proteasome chain 7; Proteasome subunit beta 6i;Beta1i;RING12;PSMB 9;RING12 protein;LMP2;Large multifunctional protease 2;Macropain chain 7;LMP 2;Multicatalytic endopeptidase complex chain 7

Research Background

The eukaryotic multicatalytic 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, LMP7-E1 and E2, in several tissues.

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