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Human PA28 alpha/PSME1 antibody

Catalog Number: ATGA0360

PRODUCT INFORMATION

Catalog number
ATGA0360

Clone No.
AT12H3

Product type
Monoclonal Antibody

UnitProt No.
Q06323

NCBI Accession No.
NP_006254

Alternative Names
Proteasome activator subunit 1, 11S regulator complex subunit alpha, REG-alpha, Activator of multicatalytic protease subunit 1, Interferon gamma up-regulated I-5111 protein, IGUP I-5111, Proteasome activator 28 subunit alpha, PA28a, PA28alpha, IFI5111

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human PSME1 (1-249aa) purified from E. coli

Isotype
IgG2a kappa

Purification Note
By protein-A affinity chromatography

Application
ELISA, WB, ICC/IF

Usage
The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

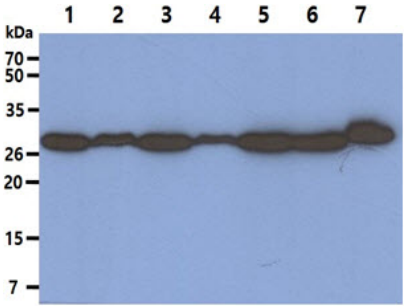
PSME1, also known as PA28 alpha, is an interferon gamma (IFNG) inducible proteasome activator required for presentation of certain major histocompatibility (MHC) class I antigens. The PSME1 complex is an alternative proteasome activator that does not employ the use of ubiquitin. The PSME1 complex is composed of two homologous subunits, alpha and beta, which have similar catalytic properties and associate to form a hexameric ring.

General References

Ahn K., et al. (1996) J Biol Chem. 271(30): 18237-18242.
Murata S., et al. (2001) EMBO J. 20(21): 5898-5907.

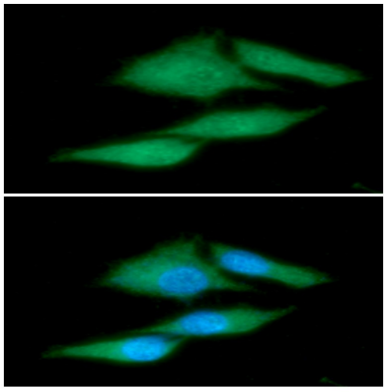
DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PSME1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1. : HeLa cell lysate
Lane 2. : LNCap cell lysate
Lane 3. : A549 cell lysate
Lane 4. : 293T cell lysate
Lane 5. : Jurkat cell lysate
Lane 6. : Raji cell lysate
Lane 7. : A431 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of PSME1 in PC3 cells. The cell was stained with ATGA0360 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).