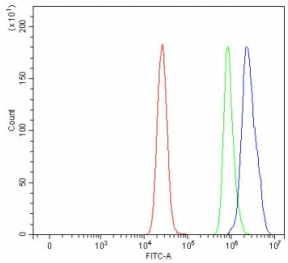
PSMD7 Antibody / 26S proteasome non-ATPase regulatory subunit 7 (RQ8161)

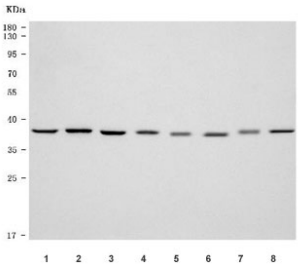
Catalog No.	Formulation	Size
RQ8161	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P51665
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This PSMD7 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human MCF7 cells with PSMD7 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PSMD7 antibody.



Western blot testing of 1) human HeLa, 2) human K562, 3) human MCF7, 4) human Caco-2, 5) rat liver, 6) rat RH35, 7) mouse liver and 8) mouse NIH 3T3 cell lysate with PSMD7 antibody. Predicted molecular weight ~37 kDa.

Description

26S proteasome non-ATPase regulatory subunit 7, also known as 26S proteasome non-ATPase subunit Rpn8 and Mov34 protein homolog (MOV34, MOV34L), is an enzyme that in humans is encoded by the PSMD7 gene. The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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 non-ATPase subunit of the 19S regulator. A pseudogene has been identified on chromosome 17.

Application Notes

Optimal dilution of the PSMD7 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids M1-N274) was used as the immunogen for the PSMD7 antibody.

Storage

After reconstitution, the PSMD7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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