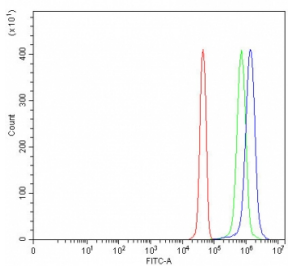
PSMF1 Antibody / PI31 / Proteasome inhibitor PI31 subunit (RQ8181)

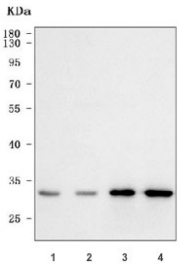
Catalog No.	Formulation	Size
RQ8181	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
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	Q92530
Applications	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This PSMF1 antibody is available for research use only.



Flow cytometry testing of fixed and permeabilized human JK cells with PSMF1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PSMF1 antibody.



Western blot testing of human 1) 293T, 2) HeLa, 3) Jurkat and 4) HepG2 cell lysate with PSMF1 antibody. Predicted molecular weight ~30 kDa.

Description

Proteasome inhibitor PI31 subunit is a protein that in humans is encoded by the PSMF1 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 protein that inhibits the activation of the proteasome by the 11S and 19S regulators. Alternative transcript variants have been identified for this gene.

Application Notes

Optimal dilution of the PSMF1 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids M1-L271) was used as the immunogen for the PSMF1 antibody.

Storage

After reconstitution, the PSMF1 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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