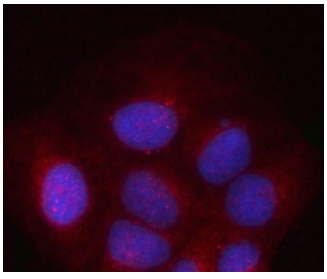
PSMD2 Antibody / 26S proteasome non-ATPase regulatory subunit 2 / TRAP2 (RQ8153)

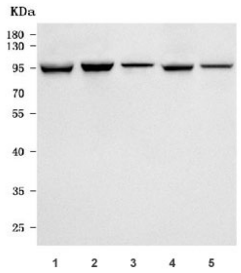
Catalog No.	Formulation	Size
RQ8153	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Monkey, 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	Q13200
Localization	Nuclear, cytoplasmic, secreted
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This PSMD2 antibody is available for research use only.



Immunofluorescent staining of FFPE human U-2 OS cells with PSMD2 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human PC-3, 2) monkey COS-7, 3) human Jurkat, 4) human SK-O-V3 and 5) rat heart tissue lysate with PSMD2 antibody. Predicted molecular weight: 82-100 kDa (multiple isoforms).

Description

26S proteasome non-ATPase regulatory subunit 2, also as known as 26S Proteasome Regulatory Subunit Rpn1 (systematic nomenclature) and Tumor necrosis factor type 1 receptor-associated protein 2 (TRAP2), is an enzyme that in humans is encoded by the PSMD2 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 one of the non-ATPase subunits of the 19S regulator lid. In addition to participation in proteasome function, this subunit may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor. A pseudogene has been identified on chromosome 1. Alternative splicing results in multiple transcript variants of this gene.

Application Notes

Optimal dilution of the PSMD2 antibody should be determined by the researcher.

Immunogen

E. coli-derived recombinant human protein (amino acids K219-L908) was used as the immunogen for the PSMD2 antibody.

Storage

After reconstitution, the PSMD2 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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