
Product Name: PSMD2 Rabbit Polyclonal Antibody**Catalog #: APRab16619**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
Molecular Weight	100kDa

Antigen Information

Gene Name	PSMD2 PSMD2; TRAP2; 26S proteasome non-ATPase regulatory subunit 2; 26S proteasome regulatory subunit RPN1; 26S proteasome regulatory subunit S2; 26S proteasome subunit p97; Protein 55.11; Tumor necrosis factor type 1 receptor-associated protein
Alternative Names	
Gene ID	5708.0
SwissProt ID	Q13200
Immunogen	The antiserum was produced against synthesized peptide derived from human PSMD2. AA range:101-150

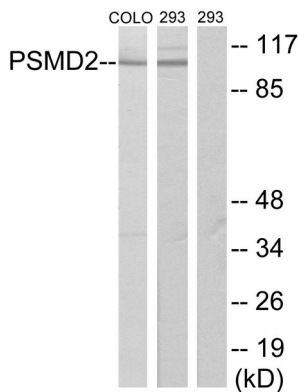
Background

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 other functions: Acts as a regulatory subunit of the 26 proteasome which is involved in the ATP-dependent degradation of ubiquitinated proteins, Binds to the intracellular domain of tumor necrosis factor type 1 receptor. The binding domain of TRAP1 and TRAP2 resides outside the death domain of TNFR1, Belongs to the proteasome subunit S2 family, Contains 7 PC repeats, Found in skeletal muscle, liver, heart, brain, kidney, pancreas, lung and placenta.

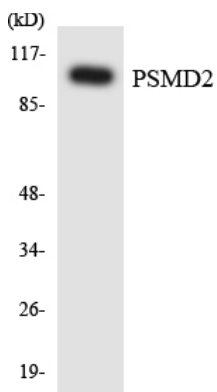
Research Area

Proteasome;

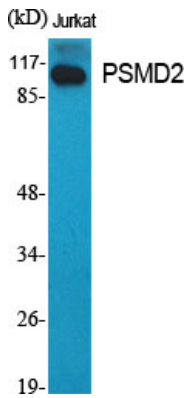
Image Data



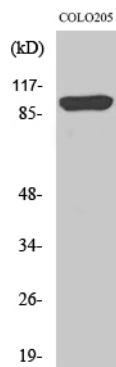
Western blot analysis of lysates from COLO205 and 293 cells, using PSMD2 Antibody. The lane on the right is blocked with the synthesized peptide.



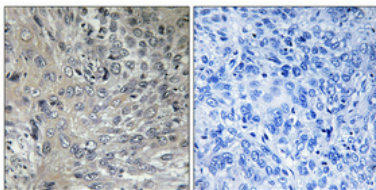
Western blot analysis of the lysates from HepG2 cells using PSMD2 antibody.



Western Blot analysis of various cells using PSMD2 Polyclonal Antibody



Western Blot analysis of 293 cells using PSMD2 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human cervix cancer. Antibody was diluted at 1:100 (4°, overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody pre-absorption by immunogen peptide.