PSMD4 Rabbit pAb

Catalog NO.: A1061

Basic Information

Observed MW
50kDa

Calculated MW
41kDa

Category
Polyclonal Antibodies

Applications
WB, IF/ICC, IP, ELISA

Cross-Reactivity
Human, Rat

Conjugation
Unconjugated

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. Pseudogenes have been identified on chromosomes 10 and 21.

Recommended Dilutions

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:200

IP
0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
5710

Swiss Prot
P55036

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
AF; ASF; S5A; AF-1; MCB1; Rpn10; pUB-R5; PSMD4

Contact

Product Information

order@abclonal.com
service@abclonal.com
www.abclonal.com

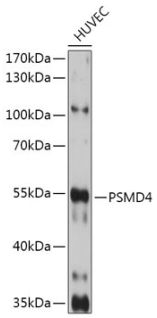
Source
Rabbit

Isotype
IgG

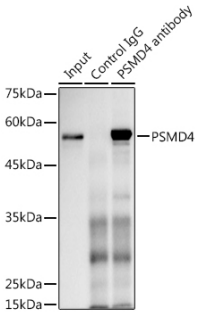
Purification
Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

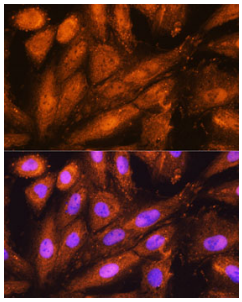
Validation Data

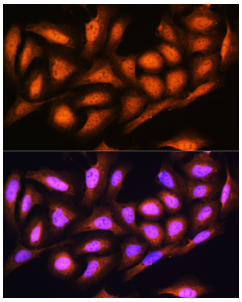


Western blot analysis of lysates from HUVEC cells, using PSMD4 Rabbit pAb (A1061) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90s.



Immunoprecipitation analysis of 300 µg extracts of MCF7 cells using 3 µg PSMD4 antibody (A1061). Western blot was performed from the immunoprecipitate using PSMD4 antibody (A1061) at a dilution of 1:1000.





Immunofluorescence analysis of H9C2 cells using PSMD4 Rabbit pAb (A1061) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Immunofluorescence analysis of U2OS cells using PSMD4 Rabbit pAb (A1061) at dilution of 1:100. Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.