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KD-Validated Anti-PSMD4 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1398

Specification

KD-Validated Anti-PSMD4 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P55036
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 41 kDa; observed, 50 kDa KDa**
Gene Name	**PSMD4**
Aliases	**PSMD4; Proteasome 26S Subunit Ubiquitin Receptor, Non-ATPase 4; AF; Rpn10; AF-1; S5A; Proteasome (Prosome, Macropain) 26S Subunit, Non-ATPase, 4; 26S Proteasome Non-ATPase Regulatory Subunit 4; 26S Proteasome Regulatory Subunit S5A; Proteasome 26S Subunit, Non-ATPase 4; Multiubiquitin Chain-Binding Protein; Antisecretory Factor 1; MCB1; ASF; 26S Proteasome Regulatory Subunit RPN10; S5a/Antisecretory Factor Protein; Angiocidin; PUB-R5**
Immunogen	**A synthesized peptide derived from human PSMD4**

KD-Validated Anti-PSMD4 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**5710**

Other Names
26S proteasome non-ATPase regulatory subunit 4, 26S proteasome regulatory subunit RPN10, 26S proteasome regulatory subunit S5A, Antisecretory factor 1, AF, ASF, Multiubiquitin chain-binding protein, PSMD4, MCB1

KD-Validated Anti-PSMD4 Rabbit Monoclonal Antibody - Protein Information

Name PSMD4

Synonyms MCB1

Function
Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome

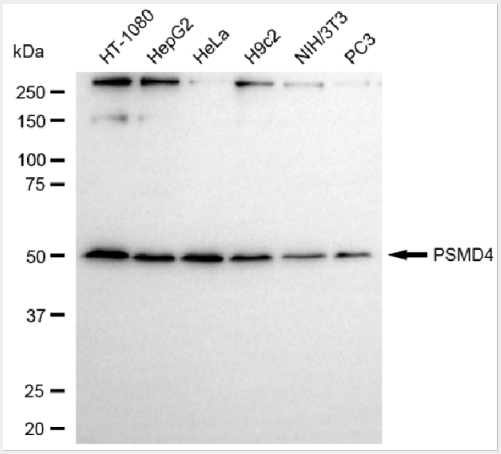
participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair. PSMD4 acts as an ubiquitin receptor subunit through ubiquitin- interacting motifs and selects ubiquitin-conjugates for destruction. Displays a preferred selectivity for longer polyubiquitin chains.

KD-Validated Anti-PSMD4 Rabbit Monoclonal Antibody - Protocols

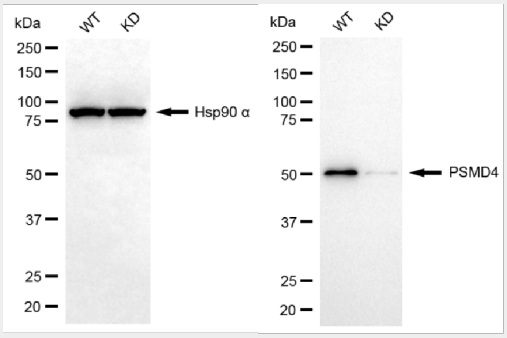
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-PSMD4 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-PSMD4 antibody (Cat#AGI1398). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-PSMD4 antibody (Cat#AGI1398, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody respectively.



Western blotting analysis using anti-PSMD4 antibody (Cat#AGI1398). PSMD4 expression in wild type (WT) and PSMD4 knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-PSMD4 antibody (Cat#AGI1398, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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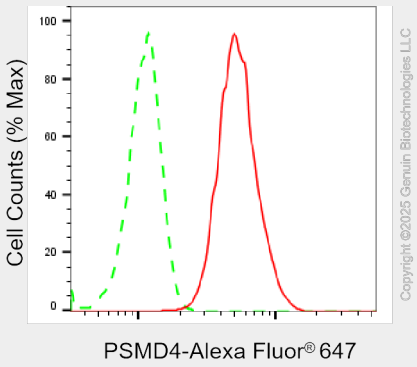

Flow cytometric analysis of PSMD4 expression in HepG2 cells using anti-PSMD4 antibody (Cat#AGI1398, 1:2,000). Green, isotype control; red, PSMD4.