

**KD-Validated Anti-PSMA6 Mouse Monoclonal Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AGI2085****Specification****KD-Validated Anti-PSMA6 Mouse Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P60900</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 27 kDa, observed, 27 kDa kDa
Gene Name	PSMA6
Aliases	PSMA6; Proteasome 20S Subunit Alpha 6; PROS27; P27K; IOTA; Proteasome (Prosome, Macropain) Subunit, Alpha Type, 6; Multicatalytic Endopeptidase Complex Iota Chain; Proteasome Subunit Alpha Type-6; Proteasome Subunit Alpha 6; 27 kDa Prosomal Protein; Proteasome Iota Chain; Macropain Iota Chain; MGC22756; MGC23846; MGC2333; PROS-27; Testicular Secretory Protein Li 44; Proteasome Subunit Alpha1; Proteasome Subunit Iota; Macropain Subunit Iota; Proteasome Subunit A1; Prosomal P27K Protein; EC 3.4.25.1
Immunogen	Recombinant protein of human PSMA6

**KD-Validated Anti-PSMA6 Mouse Monoclonal Antibody - Additional Information**

Gene ID	5687
Other Names	Proteasome subunit alpha type-6, 27 kDa prosomal protein, PROS-27, p27K, Macropain iota chain, Multicatalytic endopeptidase complex iota chain, Proteasome iota chain, Proteasome subunit alpha-1, alpha-1, PSMA6 ( <a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=9535">http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=9535</a> target="_blank">HGNC:9535</a>), PROS27

**KD-Validated Anti-PSMA6 Mouse Monoclonal Antibody - Protein Information****Name** PSMA6 ([HGNC:9535](#))**Synonyms** PROS27**Function**

Component of the 20S core proteasome complex involved in the proteolytic degradation of most intracellular proteins. This complex plays numerous essential roles within the cell by associating

with different regulatory particles. Associated with two 19S regulatory particles, forms the 26S proteasome and thus participates in the ATP- dependent degradation of ubiquitinated proteins. The 26S proteasome plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins that could impair cellular functions, and by removing proteins whose functions are no longer required. Associated with the PA200 or PA28, the 20S proteasome mediates ubiquitin- independent protein degradation. This type of proteolysis is required in several pathways including spermatogenesis (20S-PA200 complex) or generation of a subset of MHC class I-presented antigenic peptides (20S-PA28 complex).

#### Cellular Location

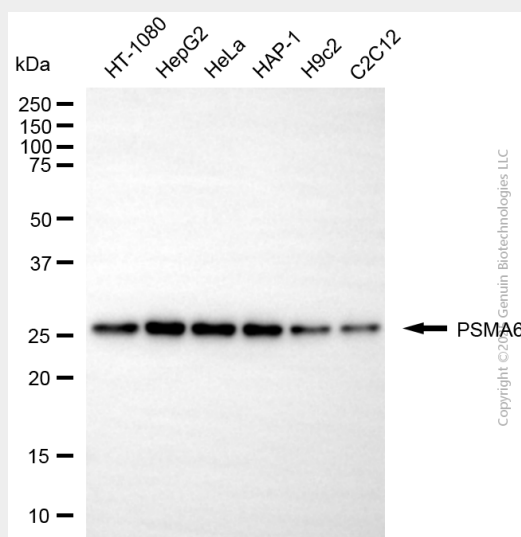
Cytoplasm {ECO:0000250|UniProtKB:Q9QUM9, ECO:0000269|PubMed:12181345}. Nucleus. Note=Translocated from the cytoplasm into the nucleus following interaction with AKIRIN2, which bridges the proteasome with the nuclear import receptor IPO9 (PubMed:34711951) Colocalizes with TRIM5 in cytoplasmic bodies (By similarity) {ECO:0000250|UniProtKB:Q9QUM9, ECO:0000269|PubMed:34711951}

#### KD-Validated Anti-PSMA6 Mouse Monoclonal Antibody - Protocols

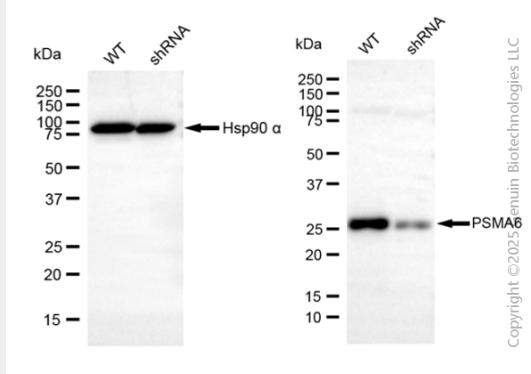
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### KD-Validated Anti-PSMA6 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-PSMA6 antibody (Cat#AGI2085). Total cell lysates (15 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-PSMA6 antibody (Cat#AGI2085, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-PSMA6 antibody (Cat#AGI2085). PSMA6 expression in wild-type (WT) and PSMA6 shRNA knockdown (KD) HeLa cells with 15 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-PSMA6 antibody (Cat#AGI2085, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.