

**PSMA3 Antibody**  
Rabbit mAb  
Catalog # AP92256

## Specification

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### PSMA3 Antibody - Product Information

|  |                        |
|--|------------------------|
| Application                                | WB, IHC, ICC, IP       |
| Primary Accession                          | <a href="#">P25788</a> |
| Reactivity                                 | Rat                    |
| Clonality                                  | Monoclonal             |
| <b>Other Names</b>                         |                        |
| HC8; Proteasome component C8; PSC8; psmA3; |                        |
| Isotype                                    | Rabbit IgG             |
| Host                                       | Rabbit                 |
| Calculated MW                              | 28433 Da               |

### PSMA3 Antibody - Additional Information

|                              |  |
|------------------------------|--|
| Purification                 | Affinity-chromatography  |
| Immunogen                    | A synthesized peptide derived from human PSMA3   |
| Description                  | The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.                              |

### PSMA3 Antibody - Protein Information

**Name** PSMA3 ([HGNC:9532](#))

**Synonyms** HC8, PSC8

#### 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). Binds to the C-terminus of CDKN1A and thereby mediates its degradation. Negatively regulates the membrane trafficking of the cell-surface thromboxane A2 receptor (TBXA2R) isoform 2.

#### Cellular Location

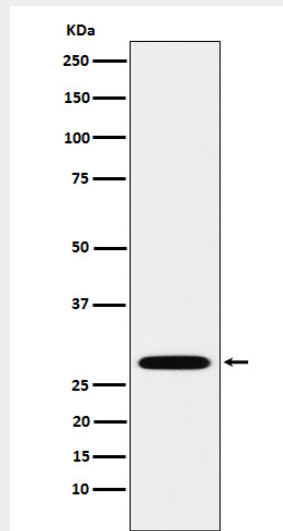
Cytoplasm. Nucleus. Note=Translocated from the cytoplasm into the nucleus following interaction with AKIRIN2, which bridges the proteasome with the nuclear import receptor IPO9

#### PSMA3 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](#)

#### PSMA3 Antibody - Images



Western blot analysis of PSMA3 expression in A549 cell lysate.