

KD-Validated Anti-PSMA6 Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI2085

Product Information

Application	WB
Primary Accession	P60900
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB13270
Calculated MW	27399
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

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 (HGNC:9535), PROS27

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}

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