

Product Name: KD-Validated PSMA6 Mouse Monoclonal Antibody**Catalog #: KVA00514**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500; FC 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 27.4kDa

Antigen Information

Gene Name	PSMA6
Alternative Names	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
Gene ID	5687.0
SwissProt ID	P60900
Immunogen	Recombinant protein of human PSMA6

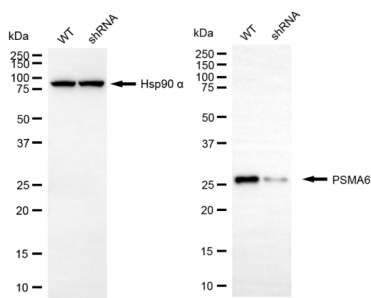
Background

The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. 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 a member of the peptidase T1A family, that is a 20S core alpha subunit. Multiple transcript variants encoding several different isoforms have been found for this gene. A pseudogene has been identified on the Y chromosome. [provided by RefSeq, Aug 2013]

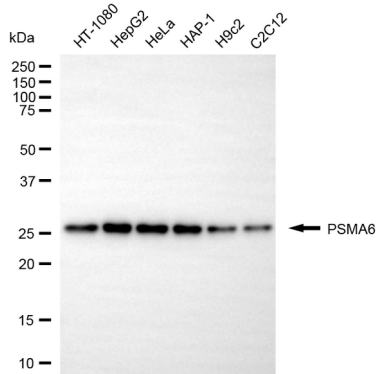
Research Area

Cancer

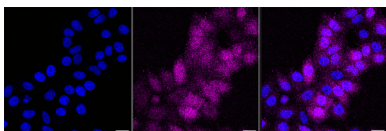
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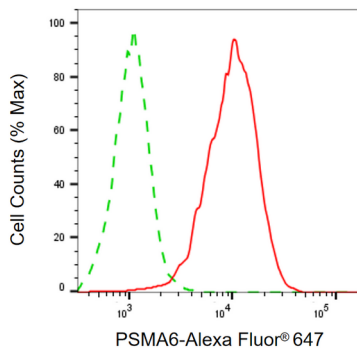
Western blotting analysis using PSMA6 antibody (KVA00514). PSMA6 expression in wild-type (WT) and PSMA6 shRNA knockdown (KD) HeLa cells with 15 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PSMA6 antibody (KVA00514, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using PSMA6 antibody (KVA00514). Total cell lysates (15 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PSMA6 antibody (KVA00514, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with PSMA6 antibody (KVA00514, 1:1,000). Nuclei were stained blue with DAPI; PSMA6 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Flow cytometric analysis of PSMA6 expression in HepG2 cells using PSMA6 antibody (KVA00514, 1:1,000). Green, isotype control; red, PSMA6.