

# **Product datasheet for CF504388**

### OriGene Technologies, Inc.

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## PSMB9 Mouse Monoclonal Antibody [Clone ID: OTI3H1]

#### **Product data:**

**Product Type:** Primary Antibodies

Clone Name: OTI3H1

**Applications:** FC, IHC, WB

Recommended Dilution: WB 1:2000, IHC 1:150, FLOW 1:100

Reactivity: Human, Mouse, Rat

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

**Immunogen:** Human recombinant protein fragment corresponding to amino acids 21-219 of human

PSMB9(NP 002791) produced in E.coli.

Formulation: Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)

**Reconstitution Method:** For reconstitution, we recommend adding 100uL distilled water to a final antibody

concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)

**Purification:** Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

Storage: Store at -20°C as received.

**Stability:** Stable for 12 months from date of receipt.

Predicted Protein Size: 23.1 kDa

**Gene Name:** proteasome 20S subunit beta 9

Database Link: NP 002791

Entrez Gene 16912 MouseEntrez Gene 24967 RatEntrez Gene 5698 Human

P28065





#### Background:

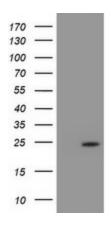
The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout 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 proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. This gene is located in the class II region of the MHC (major histocompatibility complex). Expression of this gene is induced by gamma interferon and this gene product replaces catalytic subunit 1 (proteasome beta 6 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. [provided by RefSeq]

Synonyms: beta1i; LMP2; PSMB6i; RING12

Protein Families: Druggable Genome, Protease

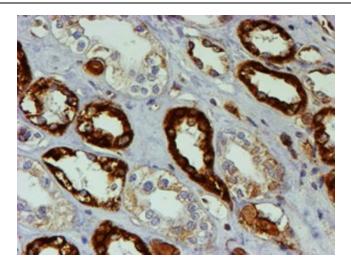
**Protein Pathways:** Proteasome

### **Product images:**

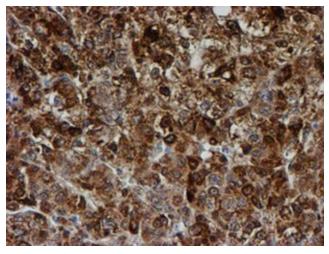


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PSMB9 ([RC209001], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PSMB9. Positive lysates [LY419098] (100ug) and [LC419098] (20ug) can be purchased separately from OriGene.

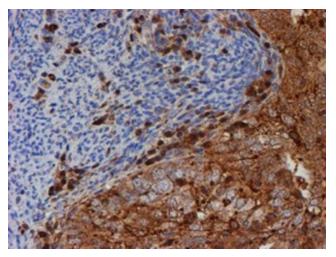




Immunohistochemical staining of paraffinembedded Human Kidney tissue within the normal limits using anti-PSMB9 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504388])

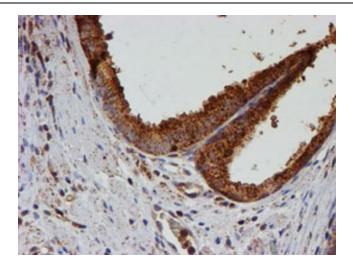


Immunohistochemical staining of paraffinembedded Carcinoma of Human liver tissue using anti-PSMB9 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504388])

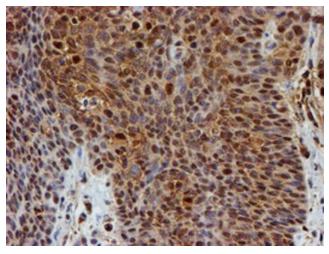


Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human endometrium tissue using anti-PSMB9 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504388])

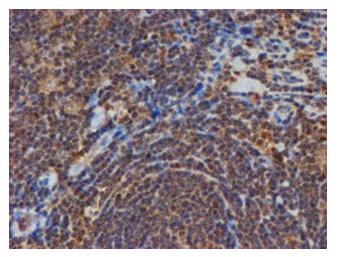




Immunohistochemical staining of paraffinembedded Carcinoma of Human prostate tissue using anti-PSMB9 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504388])

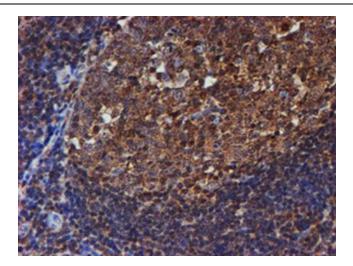


Immunohistochemical staining of paraffinembedded Carcinoma of Human bladder tissue using anti-PSMB9 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504388])

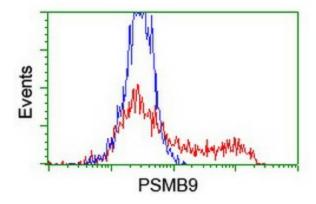


Immunohistochemical staining of paraffinembedded Human lymphoma tissue using anti-PSMB9 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504388])





Immunohistochemical staining of paraffinembedded Human tonsil within the normal limits using anti-PSMB9 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504388])



HEK293T cells transfected with either [RC209001] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-PSMB9 antibody ([TA504388]), and then analyzed by flow cytometry.