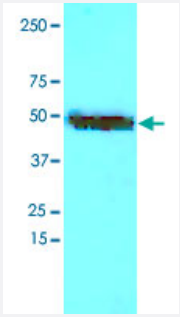
PSMD11 monoclonal antibody, clone AT1F4

Catalog # MAB5643 Size 100 uL

Applications



Western Blot (Tissue lysate)

Western blot analysis of mouse kidney (60 ug) tissue lysate were resolved by SDS-PAGE, transferred to NC membrane and probed with PSMD11 monoclonal antibody, clone AT1F4 (Cat # MAB5643) (1 : 250). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant PSMD11.
Immunogen	Recombinant protein corresponding to full length human PSMD11.
Host	Mouse
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification
Isotype	IgG1, kappa
Recommend Usage	ELISA Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

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Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Tissue lysate)

  Western blot analysis of mouse kidney (60 ug) tissue lysate were resolved by SDS-PAGE, transferred to NC membrane and probed with PSMD11 monoclonal antibody, clone AT1F4 (Cat # MAB5643) (1 : 250). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Gene Info — PSMD11

Entrez GeneID	5717
Protein Accession#	NP_002806
Gene Name	PSMD11
Gene Alias	MGC3844, Rpn6, S9, p44.5
Gene Description	proteasome (prosome, macropain) 26S subunit, non-ATPase, 11
Omim ID	604449
Gene Ontology	Hyperlink
Gene Summary	The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure compo sed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes ar e distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ub iquitin-dependent process in a non-lysosomal pathway. An essential function of a modified protea some, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a non-ATPase subunit of the 19S regulator. [provided by RefSeq
Other Designations	26S proteasome regulatory subunit 9|proteasome 26S non-ATPase subunit 11

Publication Reference

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- Increased proteasomal activity supports photoreceptor survival in inherited retinal degeneration.

  Lobanova ES, Finkelstein S, Li J, Travis AM, Hao Y, Klingeborn M, Skiba NP, Deshaies RJ, Arshavsky VY.

  Nature Communications 2018 Apr; 9(1):1738.

  Application: WB, Mouse, Retinal

- Pharmacological Amelioration of Cone Survival and Vision in a Mouse Model for Leber Congenital Amaurosis.

  Li S, Samardzija M, Yang Z, Grimm C, and Jin M.

  The Journal of Neuroscience 2016 May; 36(21):5808.

  Application: WB-Tr, Mouse, Retinal pigment epithelium cells

- Proteasome overload is a common stress factor in multiple forms of inherited retinal degeneration.

  Lobanova ES, Finkelstein S, Skiba NP, Arshavsky VY.

  PNAS 2013 Jun; 110(24):9986.

  Application: WB-Ti, Mouse, Retinal

- Proteasome subunits are regulated and expressed in comparable concentrations as a functional cluster.

  Sato Y, Sakamoto K, Sei M, Ewis AA, Nakahori Y.

  Biochemical and Biophysical Research Communications 2009 Jan; 378(4):795.

- Identification of the 19S regulatory particle subunits from the rice 26S proteasome.

  Shibahara T, Kawasaki H, Hirano H.

  European Journal of Biochemistry / FEBS 2002 Mar; 269(5):1474.

Pathway

- Proteasome

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