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Datasheet

PSMD11 monoclonal antibody, clone AT1F4

Catalog Number: MAB5643

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against full length recombinant PSMD11.

Clone Name: AT1F4

Immunogen: Recombinant protein corresponding to full length human PSMD11.

Host: Mouse

Reactivity: Human,Mouse

Applications: ELISA, WB-Ti
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Form: Liquid

Isotype: IgG1, kappa

Recommend Usage: The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS, pH 7.4 (0.09% sodium azide)

Storage Instruction: Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 5717

Gene Symbol: PSMD11

Gene Alias: MGC3844, Rpn6, S9, p44.5

Gene Summary: The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed 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 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 non-ATPase subunit of the 19S regulator. [provided by RefSeq]

References:

1. Proteasome overload is a common stress factor in multiple forms of inherited retinal degeneration. Lobanova ES, Finkelstein S, Skiba NP, Arshavsky VY Proc Natl Acad Sci U S A. 2013 Jun 11;110(24):9986-91. doi: 10.1073/pnas.1305521110. Epub 2013 May 28.
2. Proteasome subunits are regulated and expressed in comparable concentrations as a functional cluster. Sato Y, Sakamoto K, Sei M, Ewis AA, Nakahori Y. Biochem Biophys Res Commun. 2009 Jan 23;378(4):795-8. Epub 2008 Dec 6.
3. Identification of the 19S regulatory particle subunits from the rice 26S proteasome. Shibahara T, Kawasaki H, Hirano H. Eur J Biochem. 2002 Mar;269(5):1474-83.