

Datasheet

PSMB8 polyclonal antibody

Catalog Number: PAB14398

Regulation Status: For research use only (RUO)

Product Description: Goat polyclonal antibody raised against synthetic peptide of PSMB8.

Immunogen: A synthetic peptide corresponding to human PSMB8.

Sequence: C-DVSDLLHQYREANQ

Host: Goat

Theoretical MW (kDa): 29.8, 30.4

Reactivity: Human

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

Specificity: Approx 22 KDa band observed in human liver, lung and lymph node lysates (calculated MW of 29.8 KDa according to precursor NP_004150.1). The observed molecular weight corresponds to earlier findings in literature with different antibodies (Schwarz et al, J Immunol. 2000 Jul 15;165(2):768-78. PMID: 10878350).

Form: Liquid

Purification: Antigen affinity purification

Concentration: 0.5 mg/mL

Recommend Usage: ELISA (1:8000)

Western Blot (0.01-0.03 ug/mL)

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

Storage Buffer: In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)

Storage Instruction: Store at -20°C.

Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 5696

Gene Symbol: PSMB8

Gene Alias: D6S216, D6S216E, LMP7, MGC1491, PSMB5i, RING10, beta5i

Gene Summary: 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 3 (proteasome beta 5 subunit) in the immunoproteasome. Proteolytic processing is required to generate a mature subunit. Two alternative transcripts encoding two isoforms have been identified; both isoforms are processed to yield the same mature subunit. [provided by RefSeq]

References:

1. Variation in HLA class I antigen-processing genes and susceptibility to human papillomavirus type 16-associated cervical cancer. Deshpande A, Wheeler CM, Hunt WC, Peyton CL, White PS, Valdez YE, Nolan JP. J Infect Dis. 2008 Feb 1;197(3):371-81.