低分子质量蛋白 2 抗体

产品货号： mlR2787

英文名称： LMP2

中文名称： 低分子质量蛋白 2 抗体

别　　名： Proteasome 20S LMP2; Large multifunctional peptidase 2; LMP 2; LMP2; Low molecular mass protein 2; Macropain chain 7; MGC70470; Multicatalytic endopeptidase complex chain 7; Proteasome beta 9 subunit; Proteasome catalytic subunit 1i; Proteasome chain 7; Proteasome related gene 2; Proteasome subunit beta 6i; Proteasome subunit beta type 9; PSMB 9; PSMB9; PSB9_HUMAN.

研究领域： 细胞生物　免疫学

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应　： Human, Mouse, Rat, Dog, Pig, Cow, Horse, Rabbit,

产品应用： WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 IF=1:100-500 （石蜡切片需做抗原修复）
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

分 子 量： 23kDa

细胞定位： 细胞核 细胞浆

性　　状： Lyophilized or Liquid

浓　　度： **1mg/ml**

免 疫 原： KLH conjugated synthetic peptide derived from human Proteasome 20S LMP2:101-219/219

亚　　型： IgG

纯化方法： affinity purified by Protein A

储 存 液： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件： Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed： PubMed

产品介绍： 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, Mar 2010]

Function:

The proteasome is a multicatalytic proteinase complexwhich is characterized by its ability to cleave peptides with Arg,Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral orslightly basic pH. The proteasome has an ATP-dependent proteolyticactivity. This subunit is involved in antigen processing togenerate class I binding peptides. Replacement of PSMB6 by PSMB9increases the capacity of the immunoproteasome to cleave modelpeptides after hydrophobic and basic residues.

Subunit:

The 26S proteasome consists of a 20S proteasome core andtwo 19S regulatory subunits. The 20S proteasome core is composed of28 subunits that are arranged in four stacked rings, resulting in abarrel-shaped structure. The two end rings are each formed by sevenalpha subunits, and the two central rings are each formed by sevenbeta subunits. The catalytic chamber with the active sites is onthe inside of the barrel. This subunit is part of theimmunoproteasome where it displaces the equivalent houskeepingsubunit PSMB6. Interacts with HIV-1 TAT protein.

Subcellular Location:

Cytoplasm. Nucleus.

Tissue Specificity:

Highly expressed in immature dendritic cells (at protein level).

Post-translational modifications:

Autocleaved. The resulting N-terminal Thr residue of themature subunit is responsible for the nucleophile proteolyticactivity.

Similarity:

Belongs to the peptidase T1B family.

SWISS:

P28065

Gene ID:

5698

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.