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Rabbit Anti-Proteasome 20S beta 3 antibody

SL9357R

Product Name:	Proteasome 20S beta 3
Chinese Name:	蛋白酶体PSMβ3抗体
Alias:	20S Proteasome β3; C10 II; HC10 II; proteasome (prosome, macropain) subunit, beta type 3; Proteasome beta 3 subunit; Proteasome chain 13; proteasome component C10 II; Proteasome theta chain; PSMB3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Zebrafish,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	23kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Proteasome 20S beta 3:121-205/205
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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
Product Detail:	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.

Function:
The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity.

Subunit:
The 26S proteasome consists of a 20S proteasome core and two 19S regulatory subunits. The 20S proteasome core is composed of 28 subunits that are arranged in four stacked rings, resulting in a barrel-shaped structure. The two end rings are each formed by seven alpha subunits, and the two central rings are each formed by seven beta subunits. The catalytic chamber with the active sites is on the inside of the barrel. Interacts with HIV-1 TAT protein.

Subcellular Location:
Cytoplasmic and Nuclear

Similarity:
Belongs to the peptidase T1B family.

SWISS:
P49720

Gene ID:
5691

Database links:

Entrez Gene: 5691Human

Entrez Gene: 26446Mouse

Entrez Gene: 29676Rat

Omim: 602176Human

SwissProt: P33672Cow

SwissProt: P49720Human

SwissProt: Q9R1P1Mouse

SwissProt: P40112Rat

Unigene: 82793Human

	Unigene: 94551Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.