

## Rabbit Anti-Proteasome 20S beta 3/Biotin Conjugated antibody

SL9357R-Bio

**Product Name** Anti-Proteasome 20S beta 3/Biotin

**Chinese Name** 生物素标记的蛋白酶体 PSM $\beta$ 3 抗体

**Alias** 20S Proteasome  $\beta$ 3; 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.

**Research Area** Cell biology Cyclin Cell differentiation

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** (predicted:Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Zebrafish,Sheep)

WB=1000-10000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:500-5000

**Applications** not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Molecular weight** 23kDa

**Form** Lyophilized or Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human Proteasome 20S beta 3

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Storage Buffer** 1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**Product Detail** **background:**  
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.

**Database links:**

[Entrez Gene: 5691](#) Human

[Entrez Gene: 26446](#) Mouse

[Entrez Gene: 29676](#) Rat

[Omim: 602176](#) Human

[SwissProt: P33672](#) Cow

[SwissProt: P49720](#) Human

[SwissProt: Q9R1P1](#) Mouse

[SwissProt: P40112](#) Rat

[Unigene: 82793](#) Human

[Unigene: 94551](#) Rat



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**Important Note:**

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