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Rabbit Anti-Proteasome 20S alpha 3 (Ser250)/APC Conjugated antibody

SL9353R-APC

Product Name	Anti-Proteasome 20S alpha 3(Ser250)/APC
Chinese Name	APC 标记的磷酸化蛋白酶体 PSMα3 抗体
Alias	Proteasome 20S alpha 3 (phospho S250); 20S Proteasome α3; HC8; Macropain subunit C8; Multicatalytic endopeptidase complex subunit C8; Proteasome (prosome macropain) subunit alpha type 3; Proteasome alpha 3 subunit; Proteasome component C8; Proteasome subunit alpha type 3; Proteasome subunit alpha type-3; Proteasome subunit C8; PSA3_HUMAN; PSC3; PSMA3.
Product Type	Phosphorylated anti
Research Area	Cell biology Cyclin Cell differentiation
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	28kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated Synthesised phosphopeptide derived from human Proteasome 20S alpha 3 around the phosphorylation site of Ser250
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 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. Binds to the C-terminus of CDKN1A and thereby mediates its degradation. Negatively regulates the membrane trafficking of the cell-surface thromboxane A2 receptor (TBXA2R) isoform 2.

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. Binds to the C-terminus of CDKN1A and thereby mediates its degradation. Negatively regulates the membrane trafficking of the cell-surface thromboxane A2 receptor (TBXA2R) isoform 2.

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 AURKB. Interacts with CDKN1A. Interacts with HIV-1 TAT protein. Interacts with hepatitis C virus (HCV) F protein. Interacts with Epstein-Barr virus EBNA3 proteins. Interacts with MDM2 and RB1. Interacts with the C-terminus of TBXA2R isoform 2.

Subcellular Location:
Cytoplasm. Nucleus.

Similarity:
Belongs to the peptidase T1A family.

Database links:

Entrez Gene: 5684 Human

Entrez Gene: 19167 Mouse

Entrez Gene: 29670 Rat

Entrez Gene: 408248 Rat

Omim: 176843 Human

SwissProt: P25788 Human

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SwissProt: O70435 Mouse

SwissProt: P18422 Rat

Unigene: 558799 Human

Unigene: 296338 Mouse

Unigene: 3997 Rat

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