

# 20S Proteasome $\alpha$ 3 (Phospho Ser250) Rabbit pAb

CatalogNo: YP0396 Orthogonal Validated 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB, IHC, IF, ELISA

### MW

- 32kD (Observed)

### Isotype

- IgG

## Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

## Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**ELISA 1:10000**

**IF 1:50-200**

## Basic Information

**Clonality** Polyclonal

## Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human Proteasome alpha3 around the phosphorylation site of Ser250. AA range: 206-255

## Specificity

Phospho-20S Proteasome  $\alpha$ 3 (S250) Polyclonal Antibody detects endogenous levels of 20S Proteasome  $\alpha$ 3 protein only when phosphorylated at S250. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):DEsDD

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## Target Information

**Gene name** PSMA3 HC8 PSC8

**Protein Name** Proteasome subunit alpha type-3

Organism	Gene ID	UniProt ID
Human	<a href="#">5684</a> ;	<a href="#">P25788</a> ;
Mouse	<a href="#">19167</a> ;	<a href="#">O70435</a> ;
Rat	<a href="#">29670</a> ;	<a href="#">P18422</a> ;

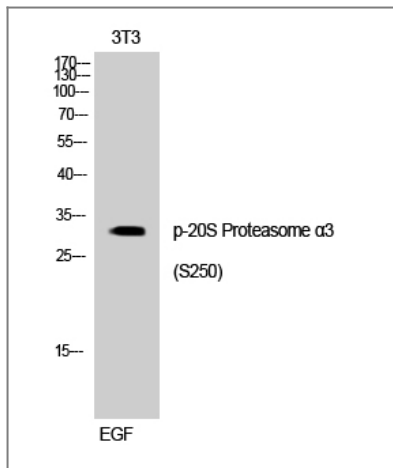
**Cellular Localization** Cytoplasm . Nucleus . Translocated from the cytoplasm into the nucleus following interaction with AKIRIN2, which bridges the proteasome with the nuclear import receptor IPO9. .

**Tissue specificity** Bone marrow,Epithelium,Liver,Pancreas,Urinary bladder,

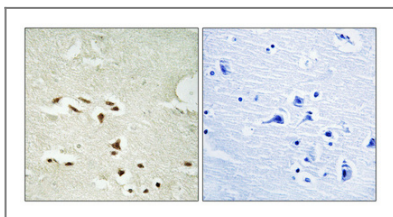
**Function** Catalytic activity: Cleavage of peptide bonds with very broad specificity., Function: The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic pH. The proteasome has an ATP-dependent proteolytic activity., similarity: Belongs to the peptidase T1A family., 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., 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.,

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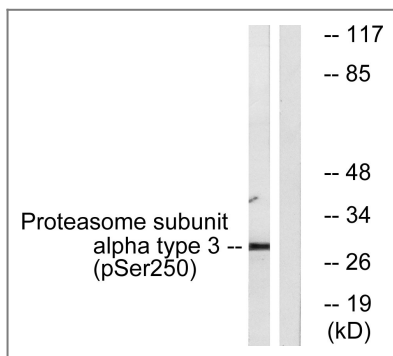
## Validation Data



Western Blot analysis of 3T3 cells using Phospho-20S Proteasome  $\alpha$ 3 (S250) Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4°C overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Western blot analysis of lysates from NIH/3T3 cells treated with EGF 200ng/ml 30', using Proteasome alpha3 (Phospho-Ser250) Antibody. The lane on the right is blocked with the phosphopeptide.

## Contact information

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**20S Proteasome  $\alpha$ 3 (Phospho Ser250) Rabbit pAb**