

**Proteasome  $\alpha$ 3 rabbit pAb**

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| <b>Catalog No :</b>          | YT7779   |
| <b>Reactivity :</b>          | Human;Mouse;Rat  |
| <b>Applications :</b>        | WB;IHC   |
| <b>Target :</b>              | Proteasome $\alpha$ 3  |
| <b>Fields :</b>              | >>Proteasome;>>Alzheimer disease;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Spinocerebellar ataxia;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases |
| <b>Gene Name :</b>           | PSMA3 HC8 PSC8   |
| <b>Protein Name :</b>        | Proteasome $\alpha$ 3  |
| <b>Human Gene Id :</b>       | 5684   |
| <b>Human Swiss Prot No :</b> | P25788   |
| <b>Mouse Gene Id :</b>       | 19167  |
| <b>Mouse Swiss Prot No :</b> | O70435   |
| <b>Rat Gene Id :</b>         | 29670  |
| <b>Rat Swiss Prot No :</b>   | P18422   |
| <b>Immunogen :</b>           | Synthesized peptide derived from human Proteasome $\alpha$ 3 AA range: 190-270   |
| <b>Specificity :</b>         | This antibody detects endogenous levels of Human,Mouse,Rat Proteasome $\alpha$ 3   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG   |
| <b>Dilution :</b>            | WB 1:500-2000;IHC 1:50-300   |

**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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

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**Molecularweight :** 28kD

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**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. This gene encodes a member of the peptidase T1A family, that is a 20S core alpha subunit. Two alternative transcripts encoding different isoforms have been identified. [provided by RefSeq, Jul 2008],

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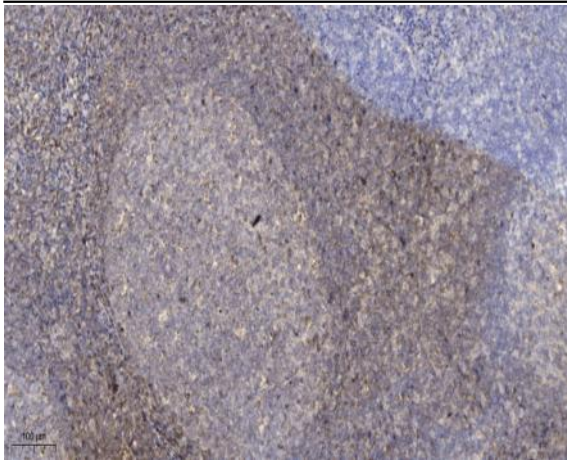
**Function :** catalytic activity: Cleavage of peptide bonds with very broad specificity., function: The proteasome is a multicatalytic proteinase complex which is characterized by its ability to cleave peptides with Arg, Phe, Tyr, Leu, and Glu adjacent to the leaving group at neutral or slightly basic 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

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

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## Products Images



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4 ° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).