## proteasome alpha 7 antibody

Catalog No: #23062



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| Description  |  |
|--------------|--|
| Product Name |  |

| Product Name          | proteasome alpha 7 antibody   |  |
|-----------------------|---|--|
| Host Species          | Rabbit  |  |
| Clonality             | Polyclonal  |  |
| Purification          | Purified by antigen-affinity chromatography.  |  |
| Applications          | WB IHC  |  |
| Species Reactivity    | Hu  |  |
| Immunogen Type        | Recombinant protein   |  |
| Immunogen Description | Recombinant protein fragment contain a sequence corresponding to a region within amino acids 1 and 175 of |  |
|                       | proteasome alpha 7  |  |
| Target Name           | proteasome alpha 7  |  |
| Accession No.         | Swiss-Prot:O14818Gene ID:5688   |  |
| Uniprot               | O14818  |  |
| GeneID                | 5688;   |  |
| Concentration         | 0.9mg/ml  |  |
| Formulation           | Supplied in 0.1M Tris-buffered saline with 20% Glycerol (pH7.0). 0.01% Thimerosal was added as a          |  |
|                       | preservative.   |  |
| Storage               | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.                 |  |
|                       |   |  |

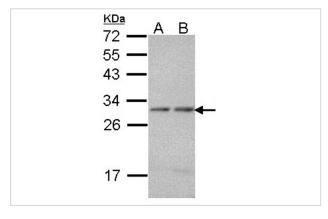
## **Application Details**

Predicted MW: 28kd

Western blotting: 1:500-1:3000

Immunohistochemistry: 1:100-1:500

## **Images**

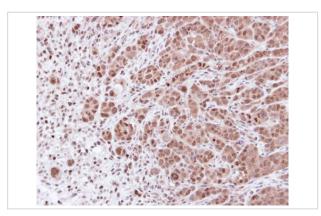


Sample (30 ug of whole cell lysate)

A: A431 B: H1299

12% SDS PAGE

Primary antibody diluted at 1: 1000



Immunohistochemical analysis of paraffin-embedded DLD-1 xenograft, using proteasome alpha 7 antibody at 1: 100 dilution

## 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. This particular subunit has been shown to interact specifically with the hepatitis B virus X protein, a protein critical to viral replication. In addition, this subunit is involved in regulating hepatitis virus C internal ribosome entry site (IRES) activity, an activity essential for viral replication. This core alpha subunit is also involved in regulating the hypoxia-inducible factor-1alpha, a transcription factor important for cellular responses to oxygen tension. Multiple isoforms of this subunit arising from alternative splicing may exist but alternative transcripts for only two isoforms have been defined. A pseudogene has been identified on chromosome 9. [provided by RefSeq]

Note: This product is for in vitro research use only