

For Research Use Only

PSME1 Polyclonal antibody

Catalog Number: 10543-1-AP **1 Publications**



Basic Information

| | | |
|--|---|--|
| Catalog Number: 10543-1-AP | GenBank Accession Number: BC007503 | Purification Method: Antigen affinity purification |
| Size: 150ul, Concentration: 1000 µg/ml by Nanodrop and 467 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 5720 | Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: Q06323 | |
| Isotype: IgG | Full Name: proteasome (prosome, macropain) activator subunit 1 (PA28 alpha) | |
| Immunogen Catalog Number: AG0831 | Calculated MW: 29 kDa | |
| | Observed MW: 29-33 kDa | |

Applications

| | |
|--|---|
| Tested Applications: WB, IHC, ELISA | Positive Controls: WB : mouse spleen tissue, A431 cells, RAW 264.7 cells IHC : human lung cancer tissue, |
| Cited Applications: WB | |
| Species Specificity: human, mouse, rat | |
| Cited Species: mouse | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

The principal function of the proteasome is targeted degradation of intracellular proteins. Activity of the 20S proteasome is controlled by regulatory complexes that bind to the ends of the cylindrical proteasome. 11S regulator (REG or PA28), is a complex of 28 kDa subunits that is thought to activate proteasomes toward the production of antigenic peptides. Human PSME1 and PSME2 genes encode the two proteasome activators PA28 alpha and beta, respectively, which have been implicated in antigen processing for loading class I MHC molecules. The PA28 activator complex enhances the generation of class I binding peptides by altering the cleavage pattern of the proteasome.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------|-----------|------------|-------------|
| Zhao Dongming D | 22623221 | Proteomics | WB |

Storage

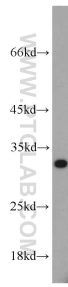
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

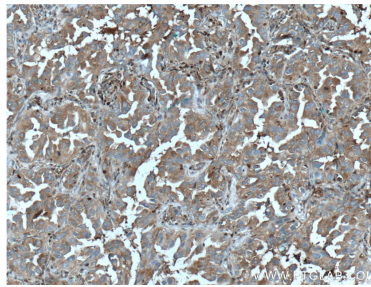
For technical support and original validation data for this product please contact:
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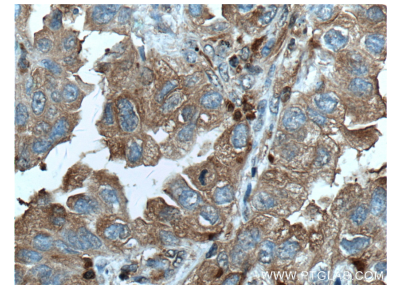
Selected Validation Data



mouse spleen tissue were subjected to SDS PAGE followed by western blot with 10543-1-AP (PSME1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10543-1-AP (PSME1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10543-1-AP (PSME1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).