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# PSMB4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant PSMB4.
Catalog # AT3460a

## Product Information

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|---|---|
| **Application** | WB, IHC, E |
| **Primary Accession** | P28070 |
| **Other Accession** | BC000331 |
| **Reactivity** | Human |
| **Host** | mouse |
| **Clonality** | monoclonal |
| **Isotype** | IgG1 kappa |
| **Clone Names** | 6G7-E8 |
| **Calculated MW** | 29204 |

## Additional Information

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|---|---|
| **Gene ID** | 5692 |
| **Other Names** | Proteasome subunit beta type-4, 26 kDa prosomal protein, HsBPROS26, PROS-26, Macropain beta chain, Multicatalytic endopeptidase complex beta chain, Proteasome beta chain, Proteasome chain 3, HsN3, PSMB4, PROS26 |
| **Target/Specificity** | PSMB4 (AAH00331, 1 a.a. ~ 264 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Dilution** | WB~~1:500~1000 IHC~~1:100~500 E~~N/A |
| **Format** | Clear, colorless solution in phosphate buffered saline, pH 7.2 . |
| **Storage** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |
| **Precautions** | PSMB4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures. |

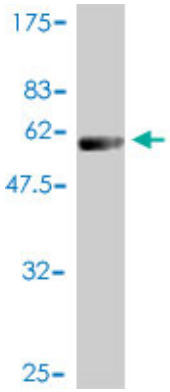
## Background

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 proteasome B-type family, also known as the T1B family, that is a 20S core beta subunit. [provided by RefSeq]

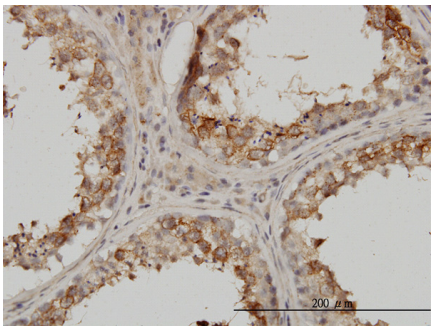
## References

1.Predictive value of PAK6 and PSMB4 expression in patients with localized prostate cancer treated with dose-escalation radiation therapy and androgen deprivation therapy.Zapatero A, Morente M, Nieto S, Mart?n de Vidales C, Lopez C, Adrados M, Arellano R, Artiga MJ, Garcia-Vicente F, Herranz LM, Leaman O.Urol Oncol. 2014 Jun 16. pii: S1078-1439(14)00167-7.

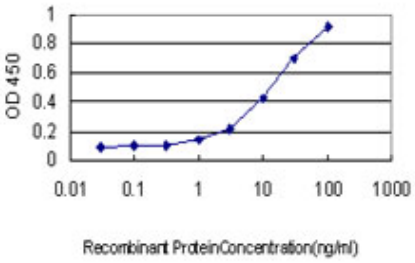
## Images




Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (54.78 KDa) .



Immunoperoxidase of monoclonal antibody to PSMB4 on formalin-fixed paraffin-embedded human testis. [antibody concentration 3 ug/ml]




Detection limit for recombinant GST tagged PSMB4 is approximately 0.3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.