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PSMC2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant PSMC2.
Catalog # AT3464a

Specification

PSMC2 Antibody (monoclonal) (M01) - Product Information

Application	**IF, WB, E**
Primary Accession	P35998
Other Accession	BC002589
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 kappa**
Calculated MW	**48634**

PSMC2 Antibody (monoclonal) (M01) - Additional Information

Gene ID 5701

Other Names
26S protease regulatory subunit 7, 26S proteasome AAA-ATPase subunit RPT1, Proteasome 26S subunit ATPase 2, Protein MSS1, PSMC2, MSS1

Target/Specificity
PSMC2 (AAH02589.1, 1 a.a. ~ 433 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

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
PSMC2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

PSMC2 Antibody (monoclonal) (M01) - Protocols

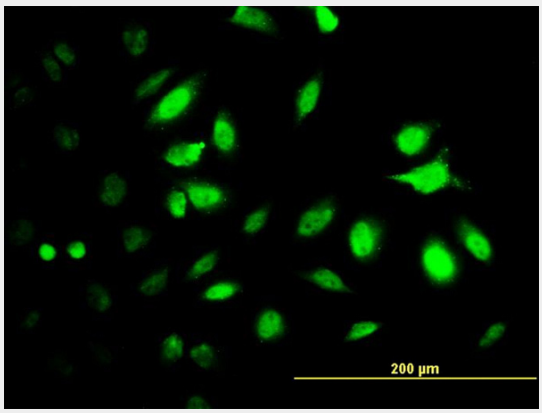
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

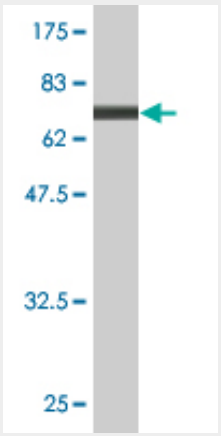
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- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

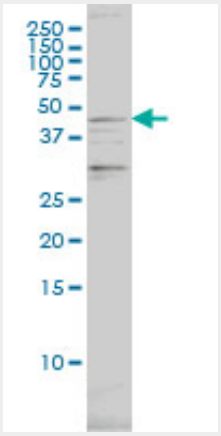
PSMC2 Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to PSMC2 on HeLa cell. [antibody concentration 10 ug/ml]



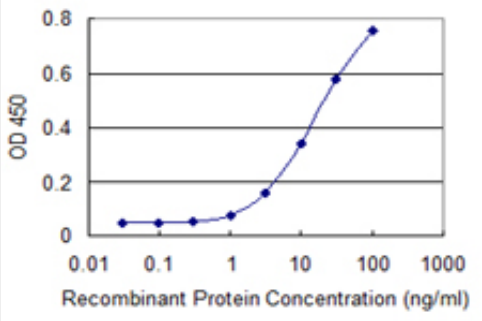
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (73.37 KDa) .



PSMC2 monoclonal antibody (M01), clone 4C10-2C8 Western Blot analysis of PSMC2 expression in

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SW-13 ((Cat # AT3464a)



Detection limit for recombinant GST tagged PSMC2 is 0.3 ng/ml as a capture antibody.

PSMC2 Antibody (monoclonal) (M01) - Background

The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core 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. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase 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 one of the ATPase subunits, a member of the triple-A family of ATPases which have a chaperone-like activity. This subunit has been shown to interact with several of the basal transcription factors so, in addition to participation in proteasome functions, this subunit may participate in the regulation of transcription. This subunit may also compete with PSMC3 for binding to the HIV tat protein to regulate the interaction between the viral protein and the transcription complex.

PSMC2 Antibody (monoclonal) (M01) - References

Defining the human deubiquitinating enzyme interaction landscape. Sowa ME, et al. Cell, 2009 Jul 23. PMID 19615732.Assembly pathway of the Mammalian proteasome base subcomplex is mediated by multiple specific chaperones. Kaneko T, et al. Cell, 2009 May 29. PMID 19490896.Chaperone-mediated pathway of proteasome regulatory particle assembly. Roelofs J, et al. Nature, 2009 Jun 11. PMID 19412159.Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.Proteomics analysis of the interactome of N-myc downstream regulated gene 1 and its interactions with the androgen response program in prostate cancer cells. Tu LC, et al. Mol Cell Proteomics, 2007 Apr. PMID 17220478.