

Datasheet for ABIN3015801  
**anti-PSMC2 antibody (AA 1-160)**



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7 Images

## Overview

Quantity:	100 µL
Target:	PSMC2
Binding Specificity:	AA 1-160
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PSMC2 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-160 of human PSMC2 (NP_002794.1).
Sequence:	MPDYLGADQR KTKEDKDDK PIRALDEGDI ALLKTYGQST YSRQIKQVED DIQQLLKIN ELTGIKESDT GLAPPALWDL AADKQTLQSE QPLQVARCTK IINADSEDPK YIINVKQFAK FVVDLSQVA PTDIEEGMRV GVDRNKYQIH IPLPPKIDPT
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

Target:	PSMC2
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## Target Details

Alternative Name: PSMC2 ([PSMC2 Products](#))

**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. Alternative splicing results in multiple transcript variants encoding distinct isoforms.,PSMC2,MSS1,Nbla10058,S7,ATPase 2,Cell Biology & Developmental Biology,Ubiquitin,PSMC2

Molecular Weight: 33 kDa/48 kDa

Gene ID: 5701

UniProt: [P35998](#)

Pathways: [Mitotic G1-G1/S Phases](#), [DNA Replication](#), [Synthesis of DNA](#), [Ubiquitin Proteasome Pathway](#)

## Application Details

Application Notes: WB,1:500 - 1:2000

Restrictions: For Research Use only

## Handling

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

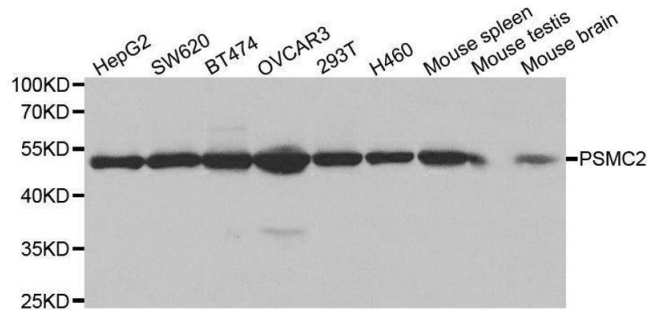
Handling

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images

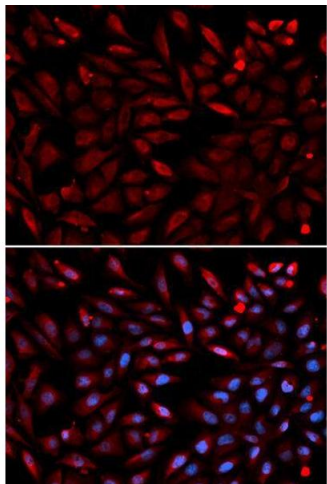
Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using PSMC2 antibody.



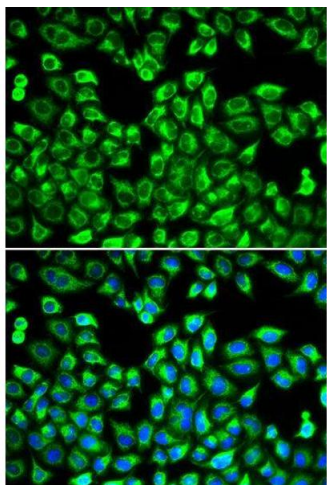
Immunofluorescence

**Image 2.** Immunofluorescence analysis of U2OS cell using PSMC2 antibody. Blue: DAPI for nuclear staining.



Immunofluorescence

**Image 3.** Immunofluorescence analysis of MCF-7 cell using PSMC2 antibody. Blue: DAPI for nuclear staining.



Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3015801.