

PSMC2 Rabbit Polyclonal Antibody



CAB1985

Product Information

Size:

20uL, 50uL, 100uL, 200uL

Observed MW:

49kDa

Calculated MW:

33kDa/48kDa

Applications:

WB IHC IF

Reactivity:

Human, Mouse, Rat

Antibody Information

Recommended dilutions:

WB 1:500 - 1:2000 IHC 1:50
- 1:200 IF 1:50 - 1:200

Source:

Rabbit

Isotype:

IgG

Purification:

Affinity purification

Protein 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.

Immunogen information

Gene ID:

5701

Uniprot

P35998

Synonyms:

PSMC2; MSS1; Nbla10058; S7; ATPase 2

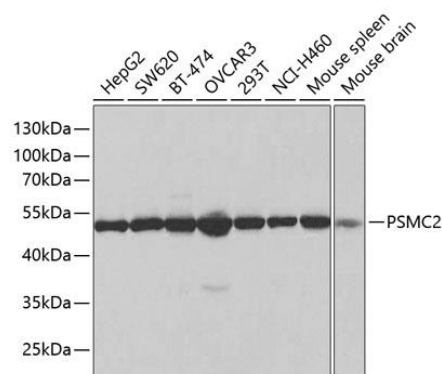
Immunogen:

Recombinant fusion protein containing a sequence corresponding to amino acids 1-160 of human PSMC2 (NP_002794.1).

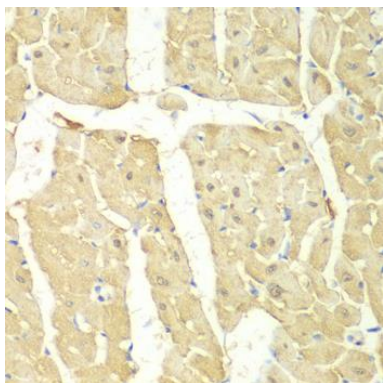
Storage:

Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

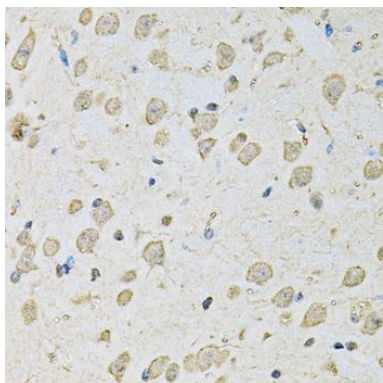
Product Images



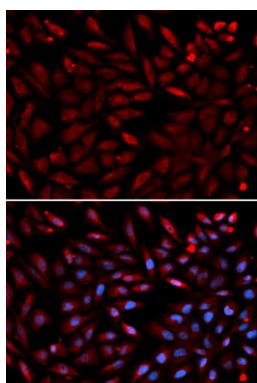
Western blot analysis of extracts of various cell lines, using PSMC2 antibody (CAB1985) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 3s.



Immunohistochemistry of paraffin-embedded mouse heart using PSMC2 antibody (CAB1985) at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse brain using PSMC2 antibody (CAB1985) at dilution of 1:100 (40x lens).



Immunofluorescence analysis of U2OS cells using PSMC2 antibody (CAB1985). Blue: DAPI for nuclear staining.