

Datasheet for ABIN7269585

anti-PSMC5 antibody

5 Images

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Overview

Quantity:	100 µL
Target:	PSMC5
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This PSMC5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Purpose:	PSMC5 Rabbit mAb
Immunogen:	Recombinant protein of Human PSMC5.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	PSMC5
Alternative Name:	PSMC5 (PSMC5 Products)
Background:	The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure

Target Details

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. In addition to participation in proteasome functions, this subunit may participate in transcriptional regulation since it has been shown to interact with the thyroid hormone receptor and retinoid X receptor-alpha. Two transcript variants encoding different isoforms have been found for this gene.,PSMC5,S8,SUG-1,SUG1,TBP10,TRIP1,p45,p45/SUG,ATPase 5,Cell Biology & Developmental Biology,Ubiquitin,PSMC5

Molecular Weight: 44kDa/45kDa

Gene ID: 5705

UniProt: [P62195](#)

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

Application Details

Application Notes: WB,1:500 - 1:2000,IF,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

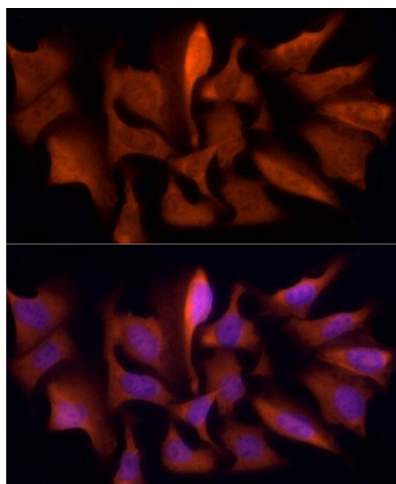
Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

Preservative: Sodium azide

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

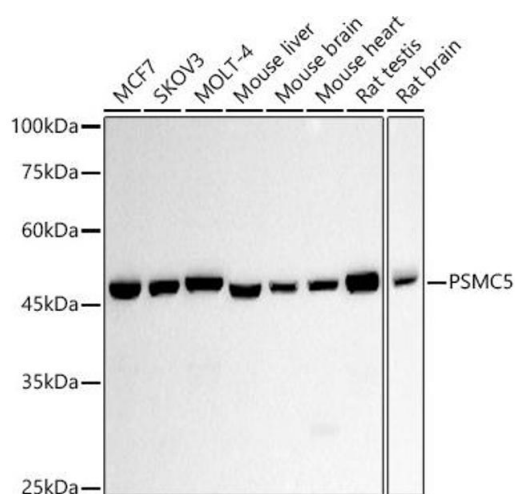
Storage: -20 °C

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



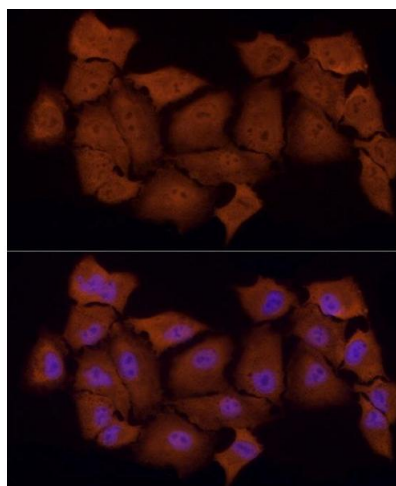
Immunofluorescence

Image 1. Immunofluorescence analysis of U2OS cells using PSMC5 Rabbit mAb (ABIN7269585) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using PSMC5 antibody (ABIN7269585) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



Immunofluorescence

Image 3. Immunofluorescence analysis of A-549 cells using PSMC5 Rabbit mAb (ABIN7269585) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7269585.