COSMO BIO CO., LTD.
Inspiration for Life Science

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Catalog No.CBX00450

Mouse monoclonal antibody Anti-Human PSMC5

Lot No. 2837C4a-1
Clone No. 2837C4a
Antibody class : IgG1
Immunogen : Recombinant

Formulation
Mouse monoclonal anti-human **PSMC5** antibody in PBS (3.0 mM KCl, 1.5 mM KH_2PO_4, 140 mM NaCl, 8.0 mM Na_2HPO_4 (pH 7.4)) containing 1% bovine serum albumin (BSA) and 0.05% sodium azide (NaN_3).

Antibody concentration
100 µg/ml (1.0 ml)

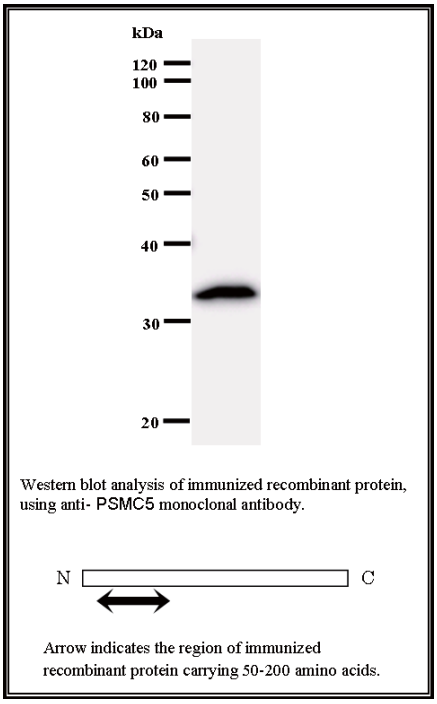
Storage
Store at 2-8℃ for up to one year.
We recommend storing at –20℃ for long-term storage.
Avoid repeat freezing and thawing cycles.

Preparation
This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.

Sterility
Filtered through a 0.22 µm membrane.

Applications
WB, IC Dot Blot

Disposal
This antibody solution contains sodium azide (NaN_3) as a preservative. There is a potential hazard that NaN_3 reacts with copper or lead to produce an explosive compound. For safe disposal, the vial has to be washed thoroughly with water.



Western blot analysis of immunized recombinant protein, using anti- PSMC5 monoclonal antibody.

Arrow indicates the region of immunized recombinant protein carrying 50-200 amino acids.

Safety warnings and precautions
Caution must be taken to avoid contact with skin or eyes. In such a case, rinse thoroughly at once with water.
Do not ingest, inhale, or swallow. Seek medical attention immediately.
Wear appropriate protective clothing such as laboratory overalls, safety glasses and gloves.
It is strongly advised that this product should be handled by people who have been well trained in laboratory techniques and that it is handled with care pursuant to the principles of good laboratory practice.
All chemicals are deemed potentially harmful.
The vial is prone to fall over. Use caution, especially when the lid is off.

FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC PROCEDURES.

manufactured by BMR

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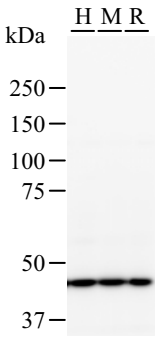
Background

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. 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. [NCBI Entrez Gene Summary]

Recommended condition

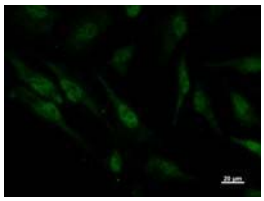
WB: 0.2-2 µg/ml IC: 2-100 µg/ml

Application



Detection of PSMC5 by Western blot.
Samples: Whole cell lysate from human HEK293 (H, 25 µg) , mouse NIH3T3 (M, 25 µg) and rat F2408 (R, 25 µg) cells. [Lot No. 2837C4a-1]

Predicted molecular weight: 45 kDa



Immunostaining analysis in HeLa cells. HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100 in PBS. The cells were immunostained with anti-PSMC5 mAb. [Lot No. 2837C4a-1]