


**BACKGROUND**

In eukaryotic cells, selective breakdown of cellular proteins is ensured by their ubiquitination and subsequent degradation by the 26S Proteasome. The 26S Proteasome is a protease complex that selectively breaks down proteins that have been modified by polyubiquitin chains. It is made up of two multi-subunit complexes: the 20S Proteasome chamber, which serves as the proteolytic core of the complex and two 19S regulatory particles which recognize and unfold ubiquitinated proteins. The 20S Proteasome chamber contains α subunits (which are structural) and β subunits (which are predominantly catalytic). The outer two rings in the proteasome consist of seven α subunits each, and the inner two rings each consist of seven β subunits. PSMB6 (proteasome, macropain subunit type, 6), also known as LMPY κ chain, macropain δ chain, proteasome δ chain or proteasome subunit y, is a β subunit of the 20S Proteasome and, upon stimulation with IFN-γ, can be displaced by LMP2.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: PSMB6 (human) mapping to 17p13.2; Psmb6 (mouse) mapping to 11 B3.

**SOURCE**

PSMB6 (B-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 51-77 within an internal region of PSMB6 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

PSMB6 (B-6) is available conjugated to agarose (sc-515919 AC), 500 µg/0.25 ml agarose in 1 ml, for IF; to HRP (sc-515919 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515919 PE), fluorescein (sc-515919 FITC), Alexa Fluor® 488 (sc-515919 AF488), Alexa Fluor® 546 (sc-515919 AF546), Alexa Fluor® 594 (sc-515919 AF594) or Alexa Fluor® 647 (sc-515919 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 800 (sc-515919 AF800) or Alexa Fluor® 790 (sc-515919 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

PSMB6 (B-6) is recommended for detection of PSMB6 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for PSMB6 siRNA (h): sc-76271, PSMB6 siRNA (m): sc-76272, PSMB6 shRNA Plasmid (h): sc-76271-SH, PSMB6 shRNA Plasmid (m): sc-76272-SH, PSMB6 shRNA (h) Lentiviral Particles: sc-76271-V and PSMB6 shRNA (m) Lentiviral Particles: sc-76272-V.

Molecular Weight of PSMB6: 25 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, SK-N-SH cell lysate: sc-2410 or Caco-2 cell lysate: sc-2262.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG1 BP-HRP: sc-516102 or m-IgG1 BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG1 BP-FITC: sc-516140 or m-IgG1 BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures. Not for resale.