

PSMB6 (C-16): sc-74868

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 multisubunit 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 (prosome, macropain) subunit, β type, 6), also known as LMPY (PSY large multi-functional protease Y), 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

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CHROMOSOMAL LOCATION

Genetic locus: PSMB6 (human) mapping to 17p13.2; Psm6 (mouse) mapping to 11 B3.

SOURCE

PSMB6 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of PSMB6 of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-74868 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PSMB6 (C-16) is recommended for detection of PSMB6 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

PSMB6 (C-16) is also recommended for detection of PSMB6 in additional species, including equine, canine, bovine and porcine.

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: A-431 whole cell lysate: sc-2201, HeLa whole cell lysate: sc-2200 or SW-13 cell lysate: sc-24778.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **PSMB6 (JQ-3): sc-100455**, our highly recommended monoclonal alternative to PSMB6 (C-16).