

PSMD1 (T-15): sc-55255

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. PSMD1 (proteasome (prosome, macropain) 26S subunit, non-ATPase 1), also known as S1 or p112, is a regulatory component of the 26S proteasome. It is widely expressed with highest expression levels found in skeletal muscle and heart. PSMD1 is the largest of at least 11 non-ATPase regulatory subunits of the 19S regulator lid and is implicated in substrate recognition and binding.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Psm1 (mouse) mapping to 1 C5.

SOURCE

PSMD1 (T-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PSMD1 of mouse origin.

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-55255 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PSMD1 (T-15) is recommended for detection of PSMD1 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

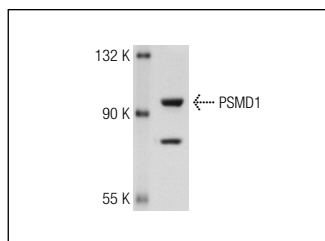
PSMD1 (T-15) is also recommended for detection of PSMD1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for PSMD1 siRNA (m): sc-62899, PSMD1 shRNA Plasmid (m): sc-62899-SH and PSMD1 shRNA (m) Lentiviral Particles: sc-62899-V.

Molecular Weight of PSMD1: 106 kDa.

Positive Controls: Sol8 cell lysate: sc-2249.

DATA



PSMD1 (T-15): sc-55255. Western blot analysis of PSMD1 expression in Sol8 whole cell lysate.

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.

PROTOCOLS

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