SANTA CRUZ BIOTECHNOLOGY, INC.

26S Proteasome p48A (12A1): sc-65756



BACKGROUND

The 26S Proteasome is a large complex involved in the intracellular degradation of proteins in eukaryotes. Ubiquitination by E3 ubiquitin ligases targets proteins for degradation by this complex. The 26S Proteasome plays an important role in the regulation of many biological processes. It is composed of over 30 different subunits and contains at least two copies of each subunit. Assembly of this large complex is ATP-dependent. Due to its size, it is fairly unstable and often disassociates into subcomplexes (including a 20S core and two 19S regulatory complexes). The 26S Proteasome p48A (also known as Rpt3 in yeast and S6 in human) is one of the six ATPase base subunits of the 19S regulatory complex. The 19S regulatory complex recognizes ubiquitinated proteins, removes the ubiquitin chains and translocates the proteins to the 20S core for degradation. The base subunits are involved in protein chaperone activity. The 26S Proteasome p48A is required for the recruitment of the p30 (Rpn12/S14) subunit of the 19S lid.

REFERENCES

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SOURCE

26S Proteasome p48A (12A1) is a mouse monoclonal antibody raised against 26S Proteasome purified from embryos of Drosophila origin.

PRODUCT

Each vial contains 200 μ g IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

26S Proteasome p48A (12A1) is recommended for detection of p48A subunit of the 19S regulatory base complex of the 26S Proteasome of Drosophila melanogaster origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

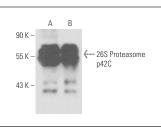
Molecular Weight of 26S Proteasome p48A: 48 kDa.

Positive Controls: Drosophila embryo tissue extract.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG K BP-HRP: sc-516102 or m-lgG K 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).

DATA



26S Proteasome p48A (12A1): sc-65756. Western blot analysis of 26S Proteasome expression in Drosophila embryo (A) tissue extract and purified *Drosophila* 26S Proteasome (B)

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 for detailed protocols and support products.