

26S Proteasome p48A (1B8): sc-65749

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 (1B8) is a mouse monoclonal antibody raised against 26S Proteasome purified from embryos of *Drosophila melanogaster* origin.

STORAGE

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

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.

26S Proteasome p48A (1B8) is available conjugated to agarose (sc-65749 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-65749 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-65749 PE), fluorescein (sc-65749 FITC), Alexa Fluor® 488 (sc-65749 AF488), Alexa Fluor® 546 (sc-65749 AF546), Alexa Fluor® 594 (sc-65749 AF594) or Alexa Fluor® 647 (sc-65749 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-65749 AF680) or Alexa Fluor® 790 (sc-65749 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

26S Proteasome p48A (1B8) 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)].

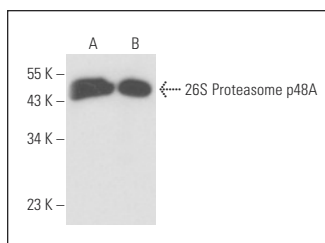
Molecular Weight of 26S Proteasome p48A: 48 kDa.

Positive Controls: *Drosophila* embryonic tissue extract.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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 (1B8): sc-65749. Western blot analysis of 26S Proteasome p48A expression in *Drosophila* embryonic protein tissue extract (A) and purified 26S Proteasome (B).

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.