

26S Proteasome p39A (50): sc-65754

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 p39A (also known as Rpn9 in yeast and S11 in human) is one of at least nine, non-ATPase lid subunits of the 19S regulatory complex. It is important in the proper assembly and stability of the 26S Proteasome. The 19S regulatory complex recognizes ubiquitinated proteins, removes the ubiquitin chains and translocates the proteins to the 20S core for degradation.

REFERENCES

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- Vernace, V.A., et al. 2007. Aging perturbs 26S Proteasome assembly in *Drosophila melanogaster*. *FASEB J.* 21: 2672-2682.

SOURCE

26S Proteasome p39A (50) 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 p39A (50) is available conjugated to agarose (sc-65754 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-65754 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-65754 PE), fluorescein (sc-65754 FITC), Alexa Fluor® 488 (sc-65754 AF488), Alexa Fluor® 546 (sc-65754 AF546), Alexa Fluor® 594 (sc-65754 AF594) or Alexa Fluor® 647 (sc-65754 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-65754 AF680) or Alexa Fluor® 790 (sc-65754 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

26S Proteasome p39A (50) is recommended for detection of p39A 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)].

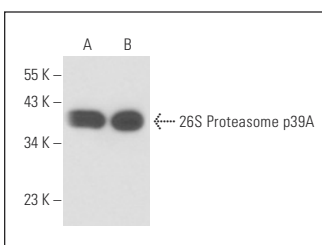
Molecular Weight of 26S Proteasome p39A: 39 kDa.

Positive Controls: *Drosophila* embryonic protein 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 p39A (50): sc-65754. Western blot analysis of 26S Proteasome p39A expression in *Drosophila* embryonic protein tissue extract (A) and purified 26S Proteasome (B).

SELECT PRODUCT CITATIONS

- Blount, J.R., et al. 2018. Expression and regulation of deubiquitinase-resistant, unanchored ubiquitin chains in *Drosophila*. *Sci. Rep.* 8: 8513.

RESEARCH USE

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