

# 26S Proteasome p42D (216): sc-65753

## 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 p42D (also known as Rpt4 in yeast and S10b 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 p42D functions to link histone ubiquitylation and methylation, playing an important role in transcription initiation and elongation.

## REFERENCES

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## SOURCE

26S Proteasome p42D (216) is a mouse monoclonal antibody raised against 26S Proteasome purified from embryos of *Drosophila melanogaster* origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

26S Proteasome p42D (216) is available conjugated to agarose (sc-65753 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-65753 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-65753 PE), fluorescein (sc-65753 FITC), Alexa Fluor® 488 (sc-65753 AF488), Alexa Fluor® 546 (sc-65753 AF546), Alexa Fluor® 594 (sc-65753 AF594) or Alexa Fluor® 647 (sc-65753 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-65753 AF680) or Alexa Fluor® 790 (sc-65753 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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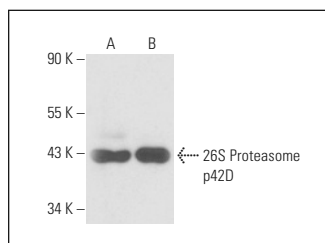
## APPLICATIONS

26S Proteasome p42D (216) is recommended for detection of p42D 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 p42D: 42 kDa.

Positive Controls: *Drosophila* embryo tissue extract.

## DATA



26S Proteasome p42D (216): sc-65753. Western blot analysis of 26S Proteasome p42D 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](http://www.scbt.com) for detailed protocols and support products.