

20S Proteasome $\alpha 4$ (h): 293T Lysate: sc-116169

BACKGROUND

The proteasome represents a large protein complex that exists inside all eukaryotes and archaea, and in some bacteria. The main function of proteasomes is to degrade unnecessary or damaged proteins by proteolysis. The most common form of the proteasome, known as the 26S Proteasome, contains one 20S Proteasome core particle structure and two 19S regulatory caps. The 20S Proteasome core is hollow and forms an enclosed cavity, where proteins are degraded, as well as openings at the two ends to allow the target protein to enter. The 20S Proteasome core particle contains many subunits, depending on the organism. All of the subunits fall into one of two types: α subunits, which are structural, serve as docking domains for the regulatory particles and exterior gates blocking unregulated access to the interior cavity; or β subunits, which are predominantly catalytic. The outer two rings in the proteasome consist of seven α subunits each, and the inner two rings each consist of seven β subunits.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PSMA4 (human) mapping to 15q25.1.

PRODUCT

20S Proteasome $\alpha 4$ (h): 293T Lysate represents a lysate of human 20S Proteasome $\alpha 4$ transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

20S Proteasome $\alpha 4$ (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive 20S Proteasome $\alpha 4$ antibodies. Recommended use: 10-20 μ l per lane.

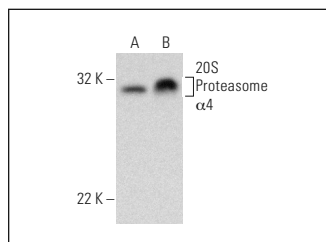
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

20S Proteasome $\alpha 4$ (H-4): sc-271297 is recommended as a positive control antibody for Western Blot analysis of enhanced human 20S Proteasome $\alpha 4$ expression in 20S Proteasome $\alpha 4$ transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

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

DATA



20S Proteasome $\alpha 4$ (H-4): sc-271297. Western blot analysis of 20S Proteasome $\alpha 4$ expression in non-transfected: sc-117752 (A) and human 20S Proteasome $\alpha 4$ transfected: sc-116169 (B) 293T whole cell lysates.

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.