# PSMC3 (h): 293T Lysate: sc-173028



The Power to Overtin

#### **BACKGROUND**

In eukaryotic cells, selective breakdown of cellular proteins is ensured by their ubiquitination and subsequent degradation by the 26S Proteasome. The 26S Proteasome is a protease complex that selectively breaks down proteins that have been modified by polyubiquitin chains. It is made up of two multisubunit complexes: the 20S Proteasome chamber, which serves as the proteolytic core of the complex, and two 19S regulatory particles which recognize and unfold ubiquitinated proteins. PSMC3 (Proteasome 26S subunit ATPase 3), also known as TBP1 (Tat-binding protein 1), is a 439 amino acid member of the AAA ATPase family. Localized to both the nucleus and the cytoplasm, PSMC3 functions as a subunit of the 19S regulatory complex and is involved in regulating the substrate specificity of the 26S Proteasome. Additionally, PSMC3 interacts with the HIV protein HIV-1 Tat and, via this interaction, mediates the association of the viral protein with transcription complexes.

## **REFERENCES**

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## **CHROMOSOMAL LOCATION**

Genetic locus: PSMC3 (human) mapping to 11p11.2.

#### **PRODUCT**

PSMC3 (h): 293T Lysate represents a lysate of human PSMC3 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

#### **APPLICATIONS**

PSMC3 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive PSMC3 antibodies. Recommended use: 10-20 µl per lane.

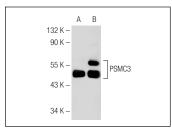
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

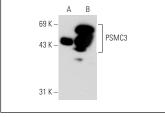
PSMC3 (28-K): sc-100462 is recommended as a positive control antibody for Western Blot analysis of enhanced human PSMC3 expression in PSMC3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## **DATA**





PSMC3 (28-K): sc-100462. Western blot analysis of PSMC3 expression in non-transfected: sc-117752 (**A**) and human PSMC3 transfected: sc-173028 (**B**) 293T whole cell Ivsates.

PSMC3 (28-K): sc-100462. Western blot analysis of PSMC3 expression in non-transfected: sc-117752 (A) and human PSMC3 transfected: sc-173028 (B) 293T whole cell Ivsates.

#### **STORAGE**

Store at -20 $^{\circ}$  C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.

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