

# EXOSC9 (H-300): sc-135118

## BACKGROUND

The exosome is a multisubunit complex composed of several highly conserved subunits, some of which are 3' to 5' exoribonucleases. The complex is involved in a variety of cellular processes and is responsible for degrading unstable mRNAs that contain AU-rich (ARE) elements in their untranslated 3' region. EXOSC9 (exosome component 9), also called p5, p6, PM/ScI-75 or RRP45, is a component of the exosome complex and is required for processing of 7S pre-rRNA to mature 5.8S rRNA. Located in the nucleus and cytoplasm, EXOSC9 is a ribonuclease that is involved in mRNA degradation, but does not contribute to stability of the exosome complex. Unlike most of the exosome subunits, EXOSC9 is thought to act both independently and as a member of the exosome, thus making it an essential part of ARE-mediated mRNA decay. EXOSC9 is proteolytically cleaved during apoptosis and is implicated in certain autoimmune diseases such as myositis and scleroderma. Four isoforms of this protein exist due to alternative splicing events.

## CHROMOSOMAL LOCATION

Genetic locus: EXOSC9 (human) mapping to 4q27; Exosc9 (mouse) mapping to 3 B.

## SOURCE

EXOSC9 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of EXOSC9 of human origin.

## PRODUCT

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

## STORAGE

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

## APPLICATIONS

EXOSC9 (H-300) is recommended for detection of EXOSC9 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

EXOSC9 (H-300) is also recommended for detection of EXOSC9 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for EXOSC9 siRNA (h): sc-88907, EXOSC9 siRNA (m): sc-144981, EXOSC9 shRNA Plasmid (h): sc-88907-SH, EXOSC9 shRNA Plasmid (m): sc-144981-SH, EXOSC9 shRNA (h) Lentiviral Particles: sc-88907-V and EXOSC9 shRNA (m) Lentiviral Particles: sc-144981-V.

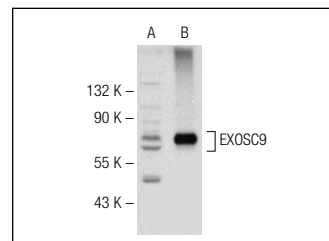
Molecular Weight of EXOSC9: 60 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or EXOSC9 (m): 293T Lysate: sc-120144.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



EXOSC9 (H-300): sc-135118. Western blot analysis of EXOSC9 expression in non-transfected: sc-117752 (A) and mouse EXOSC9 transfected: sc-120144 (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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **EXOSC9 (D-6): sc-271815** or **EXOSC9 (2337C3a): sc-81087**, our highly recommended monoclonal alternatives to EXOSC9 (H-300).