

# EXOSC3 (FL-275): sc-98776

## BACKGROUND

The exosome is a multi-subunit complex of 3' to 5' exoribonucleases. It is involved in a variety of cellular processes and is responsible for degrading unstable mRNAs that contain AU-rich elements in their untranslated 3' region. EXOSC3 (exosome component 3), also known as p10, CGI-102, RRP40 (ribosomal RNA-processing protein 40), Rrp40p or hRrp40p, is a component of the exosome multienzyme ribonuclease complex. Localizing to the cytoplasm and nucleolus, EXOSC3 contains a putative S1 RNA-binding domain and is capable of binding RNA. EXOSC3 is a component of the top cap of the exosome and is essential for exosome stability. In addition, EXOSC3 is required for the processing of the 7S pre-rRNA to the mature 5.8S rRNA.

## REFERENCES

- Allmang, C., et al. 1999. The yeast exosome and human PM-Scl are related complexes of 3' → 5' exonucleases. *Genes Dev.* 13: 2148-2158.
- Brouwer, R., et al. 2001. Three novel components of the human exosome. *J. Biol. Chem.* 276: 6177-6184.

## CHROMOSOMAL LOCATION

Genetic locus: EXOSC3 (human) mapping to 9p13.2; Exosc3 (mouse) mapping to 4 B1.

## SOURCE

EXOSC3 (FL-275) is a rabbit polyclonal antibody raised against amino acids 1-275 representing full length EXOSC3 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.

## APPLICATIONS

EXOSC3 (FL-275) is recommended for detection of EXOSC3 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

EXOSC3 (FL-275) is also recommended for detection of EXOSC3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for EXOSC3 siRNA (h): sc-92854, EXOSC3 siRNA (m): sc-144976, EXOSC3 shRNA Plasmid (h): sc-92854-SH, EXOSC3 shRNA Plasmid (m): sc-144976-SH, EXOSC3 shRNA (h) Lentiviral Particles: sc-92854-V and EXOSC3 shRNA (m) Lentiviral Particles: sc-144976-V.

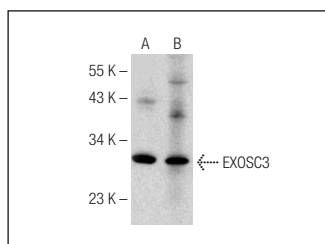
Molecular Weight of EXOSC3: 31 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, mouse kidney extract: sc-2255 or HeLa whole cell lysate: sc-2200.

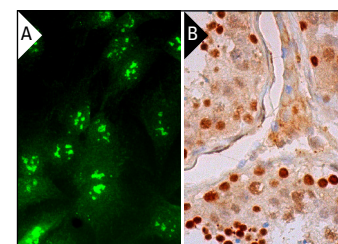
## RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

## DATA



EXOSC3 (FL-275): sc-98776. Western blot analysis of EXOSC3 expression in c4 whole cell lysate (A) and mouse kidney tissue extract (B).



EXOSC3 (FL-275): sc-98776. Immunofluorescence staining of formalin-fixed Hep G2 cells showing nucleolar localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing nuclear and cytoplasmic staining of cells in seminiferous ducts and cytoplasmic staining of Leydig cells (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) or our catalog for detailed protocols and support products.



Try **EXOSC3 (B-8): sc-166568**, our highly recommended monoclonal alternative to EXOSC3 (FL-275).