

EXOSC10 (H-300): sc-292224

BACKGROUND

The exosome is a multi-subunit complex composed of several highly conserved proteins, 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. EXOSC10, also known as PMSCL, PMSCL2, p2, p3, p4, RRP6, Rrp6p, PM-Scl or PM/Scl-100, is an 885 amino acid protein that contains one HRDC domain and one 3'-5' exonuclease domain. Localized to both the cytoplasm and the nucleus, EXOSC10 is part of the post-splicing exosome complex and is involved in mRNA surveillance, mRNA nuclear export and nonsense-mediated decay of mRNAs containing premature stop codons. Antibodies against EXOSC10 have been found in patients with scleroderma and/or polymyositis (chronic diseases of the skin and muscle, respectively), suggesting that EXOSC10 may be involved in the pathogenesis of these diseases. Two isoforms of EXOSC10 exist due to alternative splicing events.

CHROMOSOMAL LOCATION

Genetic locus: EXOSC10 (human) mapping to 1p36.22; Exosc10 (mouse) mapping to 4 E2.

SOURCE

EXOSC10 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of EXOSC10 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

EXOSC10 (H-300) is recommended for detection of EXOSC10 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); non cross-reactive with other EXOSC family members.

EXOSC10 (H-300) is also recommended for detection of EXOSC10 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for EXOSC10 siRNA (h): sc-88207, EXOSC10 siRNA (m): sc-105340, EXOSC10 shRNA Plasmid (h): sc-88207-SH, EXOSC10 shRNA Plasmid (m): sc-105340-SH, EXOSC10 shRNA (h) Lentiviral Particles: sc-88207-V and EXOSC10 shRNA (m) Lentiviral Particles: sc-105340-V.

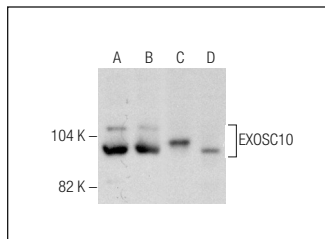
Molecular Weight of EXOSC10: 100 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132, K-562 nuclear extract: sc-2130 or NIH/3T3 nuclear extract: sc-2138.

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



EXOSC10 (H-300): sc-292224. Western blot analysis of EXOSC10 expression in Jurkat (A), K-562 (B), NIH/3T3 (C) and HeLa (D) nuclear extracts.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


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Try **EXOSC10 (B-8): sc-374595**, our highly recommended monoclonal alternative to EXOSC10 (H-300).