SANTA CRUZ BIOTECHNOLOGY, INC.

EXOSC5 (T-12): sc-131154

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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. EXOSC5 (exosome component 5), also known as exosome complex exonuclease RRP46 and CML28 (chronic myelogenous leukemia tumor antigen 28), is one of at least 11 components of the exosome complex and is required for processing of 7S pre-RNA to mature 5.8S rRNA. Located in the nucleus, EXOSC5 interacts with both EXOSC1 and EXOSC7. EXOSC5 is exclusively expressed in normal testis, though is found to be highly expressed in many hematopoietic and epithelial tumor cell lines, suggesting that it may be an appropriate target for antigen-specific immunotherapy.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EXOSC5 (human) mapping to 19q13.2; Exosc5 (mouse) mapping to 7 A3.

SOURCE

EXOSC5 (T-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of EXOSC5 of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-131154 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EXOSC5 (T-12) is recommended for detection of EXOSC5 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.

EXOSC5 (T-12) is also recommended for detection of EXOSC5 in additional species, including bovine and porcine.

Suitable for use as control antibody for EXOSC5 siRNA (h): sc-97360, EXOSC5 siRNA (m): sc-144978, EXOSC5 shRNA Plasmid (h): sc-97360-SH, EXOSC5 shRNA Plasmid (m): sc-144978-SH, EXOSC5 shRNA (h) Lentiviral Particles: sc-97360-V and EXOSC5 shRNA (m) Lentiviral Particles: sc-144978-V.

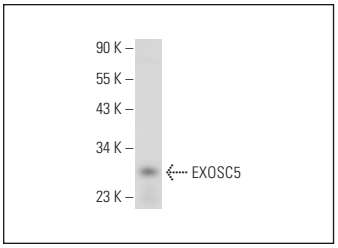
Molecular Weight of EXOSC5: 26 kDa.

Positive Controls: human kidney extract: sc-363764.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



EXOSC5 (T-12): sc-131154. Western blot analysis of EXOSC5 expression in human kidney tissue extract.

RESEARCH USE

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