

Product Information

Anti-EXOSC10 (C-terminal)

produced in rabbit, affinity isolated antibody

Catalog Number **SAB4200514**

Product Description

Anti-EXOSC10 (C-terminal) is produced in rabbit using as immunogen a peptide corresponding to the C-terminal region of human EXOSC10 (GenelD: 5394), conjugated to KLH. The corresponding sequence differs by 2 amino acids in mouse and rat. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti- EXOSC10 (C-terminal) recognizes human EXOSC10. The antibody may be used in various immunochemical techniques including immunoblotting (~100 kDa), immunoprecipitation and immunofluorescence. Detection of the EXOSC10 band by immunoblotting is specifically inhibited by the immunizing peptide.

EXOSC10, also known as RRP6 and PM/SCL-100, is a catalytic component of the eukaryotic RNA exosome. The RNA exosome is a ribonucleolytic complex of 400 kDa involved in RNA processing and turnover. It is composed of a nine-subunit catalytically inert core that serves a structural function and participates in substrate recognition, and the associated catalytic subunits EXOSC10 and DIS3 or its homolog DIS3L. The exosome was characterized as a multisubunit complex important for the 3' → 5' processing and degradation of many types of RNAs, including mRNA, rRNA, snRNA, snoRNA, and tRNA. The exosome complex is localized both to the nucleus and the cytoplasm. EXOSC10 catalyzes 3'-to-5' exoribonuclease activity on a variety of nuclear transcripts including ribosomal RNA subunits, RNA that has been poly-adenylated by TRAMP, as well as other nuclear RNA transcripts destined for processing and/or degradation.¹⁻⁴

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody Concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8°C for up to one month. For extended storage freeze in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working concentration of 0.5-1.0 µg/mL is recommended using extracts of human HeLa cells.

Immunoprecipitation: a working amount of 2.5-5.0 µg is recommended using lysates of human HeLa cells.

Immunofluorescence: a working concentration of 2.5-5 µg/mL is recommended using human HeLa cells.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration test.

References

1. Januszzyk, K., et al., *RNA*, **17**, 1566-1577 (2011).
2. Tomecki, R., et al., *EMBO J.*, **29**, 2342-2357 (2010).
3. Kiss, D.L., et al., *RNA*, **16**, 781-791 (2010).
4. Chlebowski, A., et al., *Adv. Exp. Med. Biol.*, **702**, 63-78 (2011).

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