RNase 7 (C-14): sc-165374



The Power to Question

BACKGROUND

RNase 7 (ribonuclease, RNase A family, 7), also known as skin-derived antimicrobial protein 2 (SAP-2), is a 156 amino acid secreted protein belonging to the pancreatic ribonuclease family and RNase A superfamily that is involved in antimicrobial defense of the skin. As an antimicrobial ribonuclease, RNase 7 exhibits broad-spectrum antimicrobial activity against many pathogenic microorganisms and is lethal to *Enterococcus faecium*, which plays an important role in the protection of human skin from *E. faecium* colonization. Expressed in heart, kidney, liver and skeletal muscle, RNase 7 is also found in various epithelial tissues such as respiratory tract, skin, genitourinary tract, and is found at lower levels in colon, stomach and small intestine. The gene encoding RNase 7 maps to human chromosome 14q11.2.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RNASE7 (human) mapping to 14q11.2.

SOURCE

RNase 7 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of RNase 7 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.

Blocking peptide available for competition studies, sc-165374 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RNase 7 (C-14) is recommended for detection of RNase 7 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 RNase family members.

Suitable for use as control antibody for RNase 7 siRNA (h): sc-92112, RNase 7 shRNA Plasmid (h): sc-92112-SH and RNase 7 shRNA (h) Lentiviral Particles: sc-92112-V.

Molecular Weight of RNase 7: 17 kDa.

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) 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.

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 or our catalog for detailed protocols and support products.

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