

RNase 6 (C-12): sc-163293

BACKGROUND

RNase 6 (Ribonuclease K6) is a 150 amino acid ribonuclease that belongs to the pancreatic ribonuclease family, which itself is included in the RNase A superfamily. Gene products belonging to the Ribonuclease A superfamily are pancreatic ribonucleases that cleave single-stranded RNA. RNase 6 is a secreted protein that likely plays a role in host immunological defense. RNase 6 shows strong expression in lung, heart, placenta, kidney, pancreas, liver, brain and skeletal muscle. RNase 6 is also expressed in monocytes and neutrophils. The RNase1 gene is conserved in chimpanzee, canine, bovine, mouse and rat, and maps to human chromosome 14q11.2, where it is linked to 7 other RNase A superfamily genes. The entire RNase A cluster spans 368 kb.

REFERENCES

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- Pietrowski, D. and Förster, M. 2000. Complete cDNA sequence and amino acid analysis of a bovine ribonuclease K6 gene. *DNA Seq.* 11: 365-371.
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CHROMOSOMAL LOCATION

Genetic locus: RNASE6 (human) mapping to 14q11.2.

SOURCE

RNase 6 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of RNase 6 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-163293 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RNase 6 (C-12) is recommended for detection of RNase 6 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); not cross-reactive with other RNase family members.

Suitable for use as control antibody for RNase 6 siRNA (h): sc-92276, RNase 6 shRNA Plasmid (h): sc-92276-SH and RNase 6 shRNA (h) Lentiviral Particles: sc-92276-V.

Molecular Weight of RNase 6: 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.