SANTA CRUZ BIOTECHNOLOGY, INC.

Rag C (N-15): sc-160707

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The Power to Question

BACKGROUND

The Ras-related superfamily of guanine nucleotide binding proteins includes the R-Ras, Rap, Ral/Rec and Rho/Rab subfamilies all of which are thought to play an important role in either endocytosis or in biosynthetic protein transport. The process of transporting newly synthesized proteins from the endoplasmic reticulum (ER) to various stacks of the Golgi complex and to secretory vesicles involves the movement of carrier vesicles and requires Rab protein function. Rag C (Ras-related GTP binding C), also designated GTPase-interacting protein 2 or TIB929, is a 399 amino acid cytoplasmic and nuclear protein belonging to the GTR/RAG GTP-binding protein family. Rag C forms a heterodimer with Rag A, which is involved in the RCC1/Ran-GTPase pathway and is thought to play a direct role in a TNFα signaling pathway leading to induction of cell death. Rag C has guanine nucleotide-binding activity, but undetectable intrinsic GTPase activity.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RRAGC (human) mapping to 1p34.3; Rragc (mouse) mapping to 4 D2.2.

SOURCE

Rag C (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Rag C 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-160707 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Rag C (N-15) is recommended for detection of Rag C of mouse, rat and 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 Rag family members.

Rag C (N-15) is also recommended for detection of Rag C in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for Rag C siRNA (h): sc-88543, Rag C siRNA (m): sc-152685, Rag C shRNA Plasmid (h): sc-88543-SH, Rag C shRNA Plasmid (m): sc-152685-SH, Rag C shRNA (h) Lentiviral Particles: sc-88543-V and Rag C shRNA (m) Lentiviral Particles: sc-152685-V.

Molecular Weight of Rag C: 44 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.