

Rit. Rabbit Polyclonal Antibody, Human

BACKGROUND

Rit and its neuron-specific homologue, Rin, define a recently discovered subfamily of Ras-related GTPases. Rit and Rin are membrane-associated in spite of the fact that they lack a CAAX box or similar C-terminal lipidation motif. Rit and Rin display 64% amino acid sequence identity and share a unique nine amino acid effector domain (DPTIEDAYK) that is 100% conserved between the murine and human proteins. Although the effector domain sequences of Rit and Rin are very similar to that of Ras, Rit and Rin have been shown to interact with the known Ras-binding proteins RalGDS, Rlf and AF-6, but not the Raf kinases, RIN1 or the p110 subunit of PI3 kinase. For this reason, it has been suggested that Rit and Rin may play important roles in the regulation of signaling pathways distinct from those controlled by Ras.

ORDERING INFORMATION

CATALOG NUMBER
X1186P

SIZE
100 µg

FORM
Purified

HOST/CLONE
Rabbit

FORMULATION
Provided as 0.2 µm sterile filtered solution in phosphate buffered saline with 0.08% sodium azide

CONCENTRATION
1 mg/ml

ISOTYPE
Polyclonal

APPLICATIONS
Western Blotting

IMMUNOGEN

His-tagged recombinant human Rit protein

SPECIES REACTIVITY

Human

COMMENTS

Antibody detects recombinant Rit protein expressed in HEK-293 cells by Western blot analysis. Shows minimal cross-reactivity with Rin protein and other Ras proteins.

STORAGE CUSTOMER

Antibodies should be stored at -20 degrees C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

POSITIVE CONTROL

Not Available

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

REFERENCES

1. Rusyn, E.V., et al. "Rit, a non-lipid-modified Ras-related protein, transforms NIH3T3 cells without activating the ERK, JNK, p38 MAPK or PI3K/Akt pathways." *Oncogene* 2000, 19, 4685-4694.
2. Lee, C.H. et al. "Rin, a neuron-specific and calmodulin-binding small G-protein, and Rit define a novel subfamily of ras proteins." *J. Neurosci.* 1996, 16, 6784-6794.
3. Shao, H., et al. "Biochemical characterization of the Ras-related GTPases Rit and Rin." *Arch. Biochem. Biophys.* 1999, 371, 207-219.

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Exalpha Biologicals, Inc. 86 Rosedale Road Watertown, MA 02472
Tel: 800.395.1137 Fax: 866.924.5100 www.exalpha.com info@exalpha.com

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