

RIC-3 (W-16): sc-54143

BACKGROUND

RIC-3 (resistant to inhibitors of cholinesterase-3) is the mammalian homolog of the RIC-3 protein from *C. elegans*. It contains two transmembrane domains and a coiled-coil domain. RIC-3 is expressed in neurons and localizes to the endoplasmic reticulum, where it plays a role in receptor folding and subunit assembly. In particular, RIC-3 is a nicotinic acetylcholine receptor (nAChR)-associated protein and it significantly enhances the subunit assembly, proper folding, stability and surface expression of several heteromeric and homomeric nAChR subtypes as well as some 5-HT₃ receptors. This suggests that RIC-3 may be an important regulator of receptor expression. Several isoforms exist for RIC-3 and they exhibit overlapping but distinct localizations. In addition, these isoforms may have various affects on receptor expression.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RIC3 (human) mapping to 11p15.4; Ric3 (mouse) mapping to 7 E3.

SOURCE

RIC-3 (W-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of RIC-3 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-54143 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RIC-3 (W-16) is recommended for detection of RIC-3 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).

RIC-3 (W-16) is also recommended for detection of RIC-3 in additional species, including equine, bovine, porcine and avian.

Suitable for use as control antibody for RIC-3 siRNA (h): sc-72301, RIC-3 siRNA (m): sc-72302, RIC-3 shRNA Plasmid (h): sc-72301-SH, RIC-3 shRNA Plasmid (m): sc-72302-SH, RIC-3 shRNA (h) Lentiviral Particles: sc-72301-V and RIC-3 shRNA (m) Lentiviral Particles: sc-72302-V.

Molecular Weight of RIC-3: 55 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.



Try **RIC-3 (G-8): sc-377408**, our highly recommended monoclonal alternative to RIC-3 (W-16).