

ARHGAP20 (S-24): sc-134227

BACKGROUND

GTPase-activating proteins (GAPs) accelerate the intrinsic rate of GTP hydrolysis of Ras-related proteins. ARHGAP20 (Rho GTPase activating protein 20), also known as KIAA1391, is a 1,191 amino acid protein that contains one PH domain, one Ras-associating domain and one Rho GAP domain. Expressed primarily in brain, but also present in lymph nodes and fetal liver, ARHGAP20 functions as a GTPase-activating protein for Rho-type GTPases, effectively converting Rho-type GTPases to an inactive, GDP-bound state. ARHGAP20 exists as multiple isoforms that are produced via alternative splicing. Chromosomal aberrations involving the ARHGAP20 gene are thought to be a cause of B cell chronic lymphocytic leukemia (B-CLL).

REFERENCES

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- Curry, B.J., Su, H., Law, E.G., McLaughlin, E.A., Nixon, B. and Aitken, R.J. 2004. Identification of RARho GAP, a novel putative Rho GAP gene expressed in male germ cells. Genomics 84: 406-418.
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- Katoh, M. and Katoh, M. 2005. ARHGAP20 gene at 11q22.3-q23.1 oncogenic recombination hot spot. Genes Chromosomes Cancer 44: 109-111.

CHROMOSOMAL LOCATION

Genetic locus: ARHGAP20 (human) mapping to 11q22.3; Arhgap20 (mouse) mapping to 9 A5.3.

SOURCE

ARHGAP20 (S-24) is a Protein G purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ARHGAP20 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

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.

APPLICATIONS

ARHGAP20 (S-24) is recommended for detection of ARHGAP20 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for ARHGAP20 siRNA (h): sc-96260, ARHGAP20 siRNA (m): sc-141207, ARHGAP20 shRNA Plasmid (h): sc-96260-SH, ARHGAP20 shRNA Plasmid (m): sc-141207-SH, ARHGAP20 shRNA (h) Lentiviral Particles: sc-96260-V and ARHGAP20 shRNA (m) Lentiviral Particles: sc-141207-V.

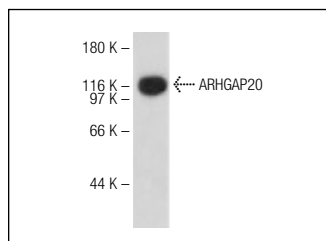
Molecular Weight of ARHGAP20: 133 kDa.

Positive Controls: rat brain tissue extract.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



ARHGAP20 (S-24): sc-134227. Western blot analysis of ARHGAP20 expression in rat brain tissue extract.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.