

ARHGAP21 (H-300): sc-98336

BACKGROUND

GTPase-activating proteins (GAPs) accelerate the intrinsic rate of GTP hydrolysis of Ras-related proteins, resulting in downregulation of their active form. ARHGAP21 (Rho GTPase activating protein 21), also known as ARHGAP10, is a 1,957 amino acid protein that localizes to the membrane of the Golgi apparatus as well as to cell junctions and the cytoplasm, and contains one Rho-GAP domain, one PH domain and one PDZ domain. Expressed at high levels in heart, placenta, brain and skeletal muscle, ARHGAP21 functions as a GTPase-activating protein for Cdc42 and Rho A and is thought to control the structure and activity of the Golgi apparatus. While ARHGAP21 is upregulated during cellular differentiation, depletion of ARHGAP21 may induce cell spreading, as well as an accumulation of actin stress fibers. Multiple isoforms of ARHGAP21 exist due to alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ARHGAP21 (human) mapping to 10p12.1; Arhgap21 (mouse) mapping to 2 A3.

SOURCE

ARHGAP21 (H-300) is a rabbit polyclonal antibody raised against amino acids 241-540 mapping within an internal region of ARHGAP21 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.

APPLICATIONS

ARHGAP21 (H-300) is recommended for detection of ARHGAP21 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

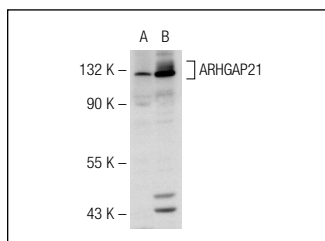
ARHGAP21 (H-300) is also recommended for detection of ARHGAP21 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ARHGAP21 siRNA (h): sc-90334, ARHGAP21 siRNA (m): sc-141208, ARHGAP21 shRNA Plasmid (h): sc-90334-SH, ARHGAP21 shRNA Plasmid (m): sc-141208-SH, ARHGAP21 shRNA (h) Lentiviral Particles: sc-90334-V and ARHGAP21 shRNA (m) Lentiviral Particles: sc-141208-V.

Molecular Weight of ARHGAP21 isoforms: 217/ 129 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or T98G cell lysate: sc-2294.

DATA



ARHGAP21 (H-300): sc-98336. Western blot analysis of ARHGAP21 expression in T98G (A) and Jurkat (B) whole cell lysates.

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.


 MONOS
Satisfaction
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Try **ARHGAP21 (E-10): sc-390145**, our highly recommended monoclonal alternative to ARHGAP21 (H-300).