

# IQGAP2 (K-18): sc-323979

## BACKGROUND

IQGAP1 and IQGAP2 are RasGAP-related actin binding proteins that interact with the small GTPases Cdc42 and Rac1 and regulate cadherin-mediated cell-cell adhesion. IQGAP1 and IQGAP2 share largely related sequence similarity, and both contain a putative calponin domain, a single WW domain, four conserved IQ or calmodulin-binding domains, and a RasGAP domain. IQGAP1 binds preferentially to the GTP S-bound form of Cdc42, whereas IQGAP2 associates with both nucleotide-bound and nucleotide-free forms of Cdc42. In addition to binding Cdc42, IQGAP1 and IQGAP2 also bind Rac1, F-actin and calmodulin. The binding of IQGAP proteins to Cdc42 and Rac1 inhibits their intrinsic and RhoGAP-stimulated GTPase activities, which thereby maintains Cdc42 and Rac1 in their active GTP-bound state.

## CHROMOSOMAL LOCATION

Genetic locus: IQGAP2 (human) mapping to 5q13.3; *lqgap2* (mouse) mapping to 13 D1.

## SOURCE

IQGAP2 (K-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of IQGAP2 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-323979 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## 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

IQGAP2 (K-18) is recommended for detection of IQGAP2 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 IQGAP1 or IQGAP3.

IQGAP2 (K-18) is also recommended for detection of IQGAP2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for IQGAP2 siRNA (h): sc-35702, IQGAP2 siRNA (m): sc-72112, IQGAP2 shRNA Plasmid (h): sc-35702-SH, IQGAP2 shRNA Plasmid (m): sc-72112-SH, IQGAP2 shRNA (h) Lentiviral Particles: sc-35702-V and IQGAP2 shRNA (m) Lentiviral Particles: sc-72112-V.

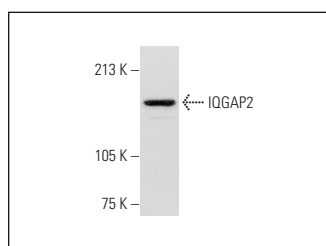
Molecular Weight of IQGAP2: 190 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, mouse liver extract: sc-2256 or human liver extract: sc-363766.

## 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.

## DATA



IQGAP2 (K-18): sc-323979. Western blot analysis of IQGAP2 expression in human liver tissue extract.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **IQGAP2 (A-4): sc-17835** or **IQGAP2 (C-3): sc-55525**, our highly recommended monoclonal alternatives to IQGAP2 (K-18).