



# DOCK 11 (D-17): sc-74610

## BACKGROUND

Small GTPases of the Rho family, Rho, Rac, and Cdc42, are critical regulators of the Actin cytoskeleton and many other cellular processes. Rho GTPases are activated by Dbl-homology (DH)-domain-containing guanine nucleotide exchange factors (GEFs). DOCK 11 (dedicator of cytokinesis 11), also known as ACG or ZIZ2 (Zizimin-2), is a 2073 amino acid protein belonging to the DOCK family of cytokinesis-regulating proteins that is mainly expressed in peripheral blood leukocytes. DOCK 11 functions as a GEF that binds and activates Cdc42 by exchanging bound GDP for free GTP. Cdc42 mediates cell polarity, gene expression, cell cycle progression and cell-cell contacts. Similar to other DOCK family members, DOCK 11 contains a PH domain and two internal DOCK homology regions designated DHR1 and DHR2.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: DOCK11 (human) mapping to Xq24; Dock11 (mouse) mapping to X A3.2.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## SOURCE

DOCK 11 (D-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of DOCK 11 of mouse 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-74610 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

DOCK 11 (D-17) is recommended for detection of DOCK 11 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).

Suitable for use as control antibody for DOCK 11 siRNA (h): sc-77168, DOCK 11 siRNA (m): sc-77169, DOCK 11 shRNA Plasmid (h): sc-77168-SH, DOCK 11 shRNA Plasmid (m): sc-77169-SH, DOCK 11 shRNA (h) Lentiviral Particles: sc-77168-V and DOCK 11 shRNA (m) Lentiviral Particles: sc-77169-V.

Molecular Weight of DOCK 11: 238 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.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

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