# Cdc42 (cC-17): sc-9280



The Power to Question

#### **BACKGROUND**

A variety of growth factor signaling molecules have been shown to regulate  $\it C. elegans$  development, including members of the EGF, FGF and TGF $\beta$  superfamilies. These factors bind to specific receptors and transduce extracellular signals to the nucleus. Receptor tyrosine kinase/Ras pathways also play a critical role in cell signaling and are responsible for proper vulval development. SUR-5 shares sequence homology with mammalian acetyl coenzyme A synthetases. A member of the kinase suppressor of Ras family, KSR-1 shares sequence homology with the Raf family protein kinases and is capable of binding to MEK. MPK-1, also known as SUR-1, is most closely related to mammalian MAP kinases (ERKs). The  $\it C. elegans$  homolog of the p21 Rasrelated CDC42 is designated CDC42ce.

# **REFERENCES**

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- Wu, Y. and Han, M. 1994. Suppression of activated LET-60 RAS protein defines a role of *Caenorhabditis elegans* SUR-1 MAP kinase in vulval differentiation. Genes Dev. 8: 147-159.
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- Gu,T., Orita, S. and Han, M. 1998. Caenorhabditis elegans SUR-5, a novel but conserved protein, negatively regulates LET-60 RAS activity during vulval induction. Mol. Cell. Biol. 18: 4556-4564.
- 7. Stewart, S., Sundaram, M., Zhang, Y., Lee, J., Han, M. and Guan, K.L. 1999. Kinase suppressor of Ras forms a multiprotein signaling complex and modulates MEK localization. Mol. Cell. Biol. 19: 5523-5534.

## **SOURCE**

Cdc42 (cC-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Cdc42 of  $\it C. elegans$  origin.

## **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9280 P, (100  $\mu$ g 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.

#### **APPLICATIONS**

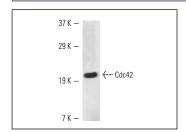
Cdc42 (cC-17) is recommended for detection of Cdc42 of *Caenorhabditis elegans* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of Cdc42: 25 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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



Cdc42 (cC-17): sc-9280. Western blot analysis of Cdc42 expression in  $\it C. elegans$  extract.

# **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 **Cdc42 (B-9): sc-390210**, our highly recommended monoclonal alternative to Cdc42 (cC-17).

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