# SANTA CRUZ BIOTECHNOLOGY, INC.

# Eps15 (H-896): sc-1840



# BACKGROUND

Elucidation of the mechanism by which receptor tyrosine kinases (RTKs) modulate cellular physiology in response to stimuli is critical to the understanding of growth regulation. Miscues in RTK signaling pathways can result in cellular transformation and ultimately in cancer. Two novel EGF receptor substrates designated EGF-receptor pathway substrates 8 and 15, or Eps8 and Eps15, have been described. Eps8 and Eps15 become tyrosine phosphorylated subsequent to EGF stimulation. Overexpression of Eps15 in NIH/3T3 cells causes cellular transformation, implying involvement in the regulation of cell proliferation. Eps15 is capable of binding the amino-terminal portion of Crk via a conserved proline-rich domain, characteristic of all Crk binding proteins. Overexpression of Eps8 in both fibroblasts and hematopoietic cells results in an increased mitogenic response to EGF. Eps8 has been shown to associate with the EGF receptor despite its lack of a functional SH2 domain. Further characterization suggests the protein has both a PH domain and a SH3 domain, the functional significance of which is not yet known.

# CHROMOSOMAL LOCATION

Genetic locus: EPS15 (human) mapping to 1p32.3; Eps15 (mouse) mapping to 4 C7.

## SOURCE

Eps15 (H-896) is a rabbit polyclonal antibody raised against amino acids 1-896 of Eps15 of human origin.

# PRODUCT

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

# APPLICATIONS

Eps15 (H-896) is recommended for detection of Eps15 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

Eps15 (H-896) is also recommended for detection of Eps15 in additional species, including bovine and porcine.

Suitable for use as control antibody for Eps15 siRNA (h): sc-35321, Eps15 siRNA (m): sc-35322, Eps15 shRNA Plasmid (h): sc-35321-SH, Eps15 shRNA Plasmid (m): sc-35322-SH, Eps15 shRNA (h) Lentiviral Particles: sc-35321-V and Eps15 shRNA (m) Lentiviral Particles: sc-35322-V.

Molecular Weight of Eps15: 142 kDa.

Positive Controls: Eps15 (m): 293T Lysate: sc-125305, NIH/3T3 whole cell lysate: sc-2210 or HeLa whole cell lysate: sc-2200.

## **STORAGE**

Store at 4° C, \*\*D0 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.

#### DATA





Eps15 (H-896): sc-1840. Western blot analysis of Eps15 expression in non-transfected 293T: sc-117752 (A), mouse Eps15 transfected 293T: sc-125305 (B) and NIH/3T3 (C) whole cell lysates.

Eps15 (H-896): sc-1840. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing cytoplasmic staining.

### SELECT PRODUCT CITATIONS

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## MONOS Satisfation Guaranteed

Try **Eps15 (E-3):** sc-390259 or **Eps15 (G-3):** sc-374578, our highly recommended monoclonal aternatives to Eps15 (H-896).