

# CTNNAL1 (E-12): sc-107193

## BACKGROUND

CTNNAL1 (catenin (cadherin-associated protein),  $\alpha$ -like 1), also known as CLLP or  $\alpha$ -CATU, is a 734 amino acid cytoplasmic peripheral membrane protein belonging to the vinculin/ $\alpha$ -catenin family. Expressed at high levels in adrenal gland and present at lower levels in neural tissues, CTNNAL1 may be involved in the regulation of Rho pathway signaling by providing a scaffold for the Lbc Rho guanine nucleotide exchange factor 1 (RhoGEF p115). It is suggested that CTNNAL1 is down-regulated in pancreatic carcinoma undergoing differentiation and apoptosis. Existing as three isoforms produced by alternative splicing events, CTNNAL1 may contribute to the wound repair and proliferation of human bronchial epithelial cells (HBEC).

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CTNNAL1 (human) mapping to 9q31.3; Ctnnal1 (mouse) mapping to 4 B3.

## SOURCE

CTNNAL1 (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CTNNAL1 of human origin.

## STORAGE

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

## PRODUCT

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

Blocking peptide available for competition studies, sc-107193 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CTNNAL1 (E-12) is recommended for detection of CTNNAL1 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 family member CTNNBL1.

CTNNAL1 (E-12) is also recommended for detection of CTNNAL1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CTNNAL1 siRNA (h): sc-92652, CTNNAL1 siRNA (m): sc-142621, CTNNAL1 shRNA Plasmid (h): sc-92652-SH, CTNNAL1 shRNA Plasmid (m): sc-142621-SH, CTNNAL1 shRNA (h) Lentiviral Particles: sc-92652-V and CTNNAL1 shRNA (m) Lentiviral Particles: sc-142621-V.

Molecular Weight of CTNNAL1: 82 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.



Try **CTNNAL1 (A-4): sc-390854**, our highly recommended monoclonal alternative to CTNNAL1 (E-12).