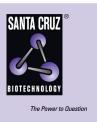
## SANTA CRUZ BIOTECHNOLOGY, INC.

# Cas-L (H-70): sc-25503



#### BACKGROUND

Cas family proteins are adhesion docking molecules that mediate proteinprotein interactions and contribute to a number of signal transduction pathways. Cas-L (also designated human enhancer of filamentation (HEF1) and neural precursor cell expressed, developmentally down-regulated 9 (NEDD9), participates in integrin and growth factor signaling pathways that regulate growth, motility and apoptosis. Cas-L consists of two isoforms, p105 and p115. The larger molecular weight form is a result of Ser/Thr phosphorylation. Cas-L phosphorylation is dependent on cell adhesion and Src kinase activity. Cas-L acts as a downstream effector of FAK in the invasive behavior of glioblastoma cells. TGF $\beta$ 1 regulates Cas-L gene expression and influences phosphorylation. Adhesion-dependent Actin organization regulates proteasomal turnover of Cas-L through the activity of PP2A. Tyrosine phosphorylated Cas-L can bind FAK in dendrite and soma of neurons after ischemia. Cas-L can promote neurite outgrowth of PC-12 cells.

## REFERENCES

- 1. Law, S.F., et al. 2000. The docking protein HEF1 is an apoptotic mediator at focal adhesion sites. Mol. Cell. Biol. 20: 5184-5195.
- Liu, X., et al. 2000. A novel ability of Smad3 to regulate proteasomal degradation of a Cas family member HEF1. EMBO J. 19: 6759-6769.

#### CHROMOSOMAL LOCATION

Genetic locus: NEDD9 (human) mapping to 6p24.2; Nedd9 (mouse) mapping to 13 A3.3.

#### SOURCE

Cas-L (H-70) is a rabbit polyclonal antibody raised against amino acids 765-834 of Cas-L of human origin.

#### PRODUCT

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

### **APPLICATIONS**

Cas-L (H-70) is recommended for detection of Cas-L of mouse, rat and human 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Cas-L (H-70) is also recommended for detection of Cas-L in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Cas-L siRNA (h): sc-40794, Cas-L siRNA (m): sc-40795, Cas-L shRNA Plasmid (h): sc-40794-SH, Cas-L shRNA Plasmid (m): sc-40795-SH, Cas-L shRNA (h) Lentiviral Particles: sc-40794-V and Cas-L shRNA (m) Lentiviral Particles: sc-40795-V.

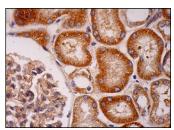
Molecular Weight of Cas-L: 105 kDa

#### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> Mounting Medium: sc-24941. 4) Immuno-histochemistry: use ImmunoCruz<sup>™</sup>: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

#### DATA





Cas-L (H-70): sc-25503. Immunofluorescence staining of methanol-fixed NIH/3T3 cells showing cytoplasmic localization.

Cas-L (H-70): sc-25503. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing cytoplasmic staining of trophoblastic cells and decidual cells.

## **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.

### PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

### MONOS Satisfation Guaranteed

Try Cas-L (2G9): sc-33659 or Cas-L (2B11): sc-33658, our highly recommended monoclonal alternatives to Cas-L (H-70).