

CIN85 (H-300): sc-48746

BACKGROUND

CD2AP (CMS) and CIN85 (Ruk) belong to a family of ubiquitously expressed adaptor molecules containing three SH3 domains, a proline-rich region and a coiled-coil domain. By binding to numerous proteins, CD2AP and CIN85 assemble multimeric complexes implicated in cell-specific signals controlling T-cell activation, kidney glomeruli function or apoptosis in neuronal cells. CIN85/CD2AP also associate with accessory endocytic proteins, components of the Actin cytoskeleton, and other adaptor proteins involved in receptor tyrosine kinase signaling. These interactions enable CIN85/CD2AP to function within a network of signaling pathways that coordinate critical steps involved in downregulation and degradation of receptor tyrosine kinases.

CHROMOSOMAL LOCATION

Genetic locus: SH3KBP1 (human) mapping to Xp22.12; Sh3kbp1 (mouse) mapping to X F4.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SOURCE

CIN85 (H-300) is a rabbit polyclonal antibody raised against amino acids 366-665 mapping at the C-terminus of CIN85 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.

PROTOCOLS

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

APPLICATIONS

CIN85 (H-300) is recommended for detection of CIN85 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).

CIN85 (H-300) is also recommended for detection of CIN85 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CIN85 siRNA (h): sc-43684, CIN85 siRNA (m): sc-45333, CIN85 shRNA Plasmid (h): sc-43684-SH, CIN85 shRNA Plasmid (m): sc-45333-SH, CIN85 shRNA (h) Lentiviral Particles: sc-43684-V and CIN85 shRNA (m) Lentiviral Particles: sc-45333-V.

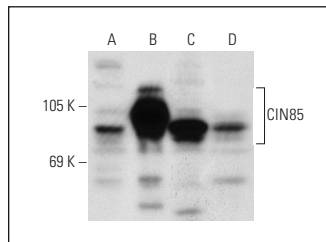
Molecular Weight of CIN85: 85 kDa.

Positive Controls: RAW 264.7 whole cell lysate: sc-2211, CIN85 (h2): 293T Lysate: sc-175351 or THP-1 cell lysate: sc-2238.

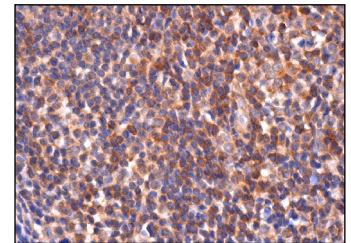
RECOMMENDED SECONDARY REAGENTS

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™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 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™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



CIN85 (H-300): sc-48746. Western blot analysis of CIN85 expression in non-transfected 293T: sc-117752 (A), human CIN85 transfected 293T: sc-175351 (B), THP-1 (C) and RAW 264.7 (D) whole cell lysates.



CIN85 (H-300): sc-48746. Immunoperoxidase staining of formalin fixed, paraffin-embedded human lymph node tissue showing cytoplasmic staining of cells in germinal and non-germinal centers.

SELECT PRODUCT CITATIONS

1. Marois, L., et al. 2011. CIN85 modulates the down-regulation of Fc γRIIa expression and function by c-Cbl in a PKC-dependent manner in human neutrophils. *J. Biol. Chem.* 286: 15073-15084.
2. Cheerathodi, M. and Ballif, B.A. 2011. Identification of CrkL-SH3 binding proteins from embryonic murine brain: implications for Reelin signaling during brain development. *J. Proteome Res.* 10: 4453-4462.
3. Bior, B.K. and Ballif, B.A. 2013. Dab1 stabilizes its interaction with Cin85 by suppressing Cin85 phosphorylation at serine 587. *FEBS Lett.* 587: 60-66.
4. Fung, C., et al. 2013. p16^{INK4a} deficiency promotes DNA hyper-replication and genetic instability in melanocytes. *Pigment Cell Melanoma Res.* 26: 236-246.

RESEARCH USE

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



Try **CIN85 (A-7): sc-166862** or **CIN85 (E-1): sc-377342**, our highly recommended monoclonal alternatives to CIN85 (H-300).