

Hic-5 (H-75): sc-28748

BACKGROUND

In addition to paxillin, zysin, LPP, ajuba and trip-6, hydrogen-peroxide inducible clone 5 (HIC-5) is a member of the LIM family. HIC-5 contains four LIM motifs and seven zinc finger domains. In the cell, HIC-5 localizes to the nuclear matrix and focal adhesion complexes where the LIM domains mediate the interactions of HIC-5 with focal adhesions. Known also as transforming factor β 1 induced transcript 1, HIC-5 shares extensive homology with the structural protein paxillin, which is involved in the regulation of focal adhesion dynamics. HIC-5 inhibits integrin-mediated cell spreading on fibronectin by out competing paxillin for focal adhesion kinase and thereby preventing downstream signal transduction. Increased expression of HIC-5 leads to cellular senescence in developing fibroblasts. During myogenesis, expression of HIC-5 blocks differentiation and induces apoptosis of developing myoblasts. The gene encoding human HIC-5 maps to chromosome 16.

CHROMOSOMAL LOCATION

Genetic locus: TGFB111 (human) mapping to 16p11.2; Tgfb1i1 (mouse) mapping to 7 F3.

SOURCE

Hic-5 (H-75) is a rabbit polyclonal antibody raised against amino acids 1-75 mapping at the N-terminus of Hic-5 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-28748 X, 200 μ g/0.1 ml.

APPLICATIONS

Hic-5 (H-75) is recommended for detection of Hic-5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

Hic-5 (H-75) is also recommended for detection of Hic-5 in additional species, including canine and porcine.

Suitable for use as control antibody for Hic-5 siRNA (h): sc-37685, Hic-5 siRNA (m): sc-37686, Hic-5 shRNA Plasmid (h): sc-37685-SH, Hic-5 shRNA Plasmid (m): sc-37686-SH, Hic-5 shRNA (h) Lentiviral Particles: sc-37685-V and Hic-5 shRNA (m) Lentiviral Particles: sc-37686-V.

Hic-5 (H-75) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

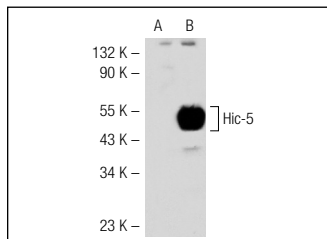
Molecular Weight of Hic-5: 55 kDa.

Positive Controls: Hic-5 (m): 293T Lysate: sc-126953 or HeLa whole cell lysate: sc-2200.

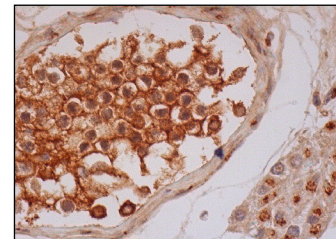
STORAGE

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

DATA



Hic-5 (H-75): sc-28748. Western blot analysis of Hic-5 expression in non-transfected: sc-117752 (A) and mouse Hic-5 transfected: sc-126953 (B) 293T whole cell lysates.



Hic-5 (H-75): sc-28748. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic, membrane and nuclear staining of cells in seminiferous ducts and cytoplasmic staining of Leydig cells.

SELECT PRODUCT CITATIONS

- Jung, S.H., et al. 2007. Insulin-mimetic and Insulin-sensitizing activities of a pentacyclic triterpenoid Insulin receptor activator. *Biochem. J.* 403: 243-250.
- Rathore, V.B., et al. 2007. Paxillin family members function as Csk-binding proteins that regulate Lyn activity in human and murine platelets. *Biochem. J.* 403: 275-281.

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.



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Try **Hic-5 (C-6): sc-271353** or **Hic-5 (F-6): sc-137051**, our highly recommended monoclonal alternatives to Hic-5 (H-75).