

CXXC5 (S-12): sc-135467

BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. CXXC5 (CXXC finger 5), also known as RINF or HSPC195, is a 322 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one CXXC-type zinc finger. Interacting with Dvl-1, CXXC5 acts as a mediator of Wnt signaling in neural stem cells and is thought to participate in the activation of MAP kinase pathways. The gene encoding CXXC5 maps to human chromosome 5 and is expressed as multiple alternatively spliced isoforms.

REFERENCES

1. Katoh, M. and Katoh, M. 2004. Identification and characterization of FBXL19 gene in silico. *Int. J. Mol. Med.* 14: 1109-1114.
2. Pendino, F., Nguyen, E., Jonassen, I., Dysvik, B., Azouz, A., Lanotte, M., Segal-Bendirdjian, E. and Lillehaug, J.R. 2009. Functional involvement of RINF, retinoid-inducible nuclear factor (CXXC5), in normal and tumoral human myelopoiesis. *Blood* 113: 3172-3181.

CHROMOSOMAL LOCATION

Genetic locus: CXXC5 (human) mapping to 5q31.2; Cxxc5 (mouse) mapping to 18 B2.

SOURCE

CXXC5 (S-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of CXXC5 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-135467 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CXXC5 (S-12) is recommended for detection of CXXC5 isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CXXC5 siRNA (h): sc-91677, CXXC5 siRNA (m): sc-142647, CXXC5 shRNA Plasmid (h): sc-91677-SH, CXXC5 shRNA Plasmid (m): sc-142647-SH, CXXC5 shRNA (h) Lentiviral Particles: sc-91677-V and CXXC5 shRNA (m) Lentiviral Particles: sc-142647-V.

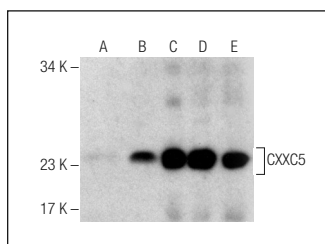
Molecular Weight of CXXC5: 33 kDa.

Positive Controls: CXXC5 (h2): 293 Lysate: sc-173695, MCF7 whole cell lysate: sc-2206 or HeLa whole cell lysate: sc-2200.

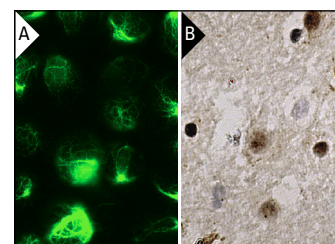
RECOMMENDED SECONDARY REAGENTS

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



CXXC5 (S-12): sc-135467. Western blot analysis of CXXC5 expression in non-transfected: sc-110760 (A) and human CXXC5 transfected: sc-173695 (B) 293 whole cell lysates and HeLa (C), MCF7 (D) and K-562 (E) nuclear extracts.



CXXC5 (S-12): sc-135467. Immunofluorescence staining of methanol-fixed HeLa cells showing perinuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human brain tissue showing nuclear staining of neuronal and glial cells (B).

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
Satisfaction
Guaranteed

Try **CXXC5 (H-6): sc-376348**, our highly recommended monoclonal alternative to CXXC5 (S-12).