

# CXXC5 (H-143): sc-292131

## 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

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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.
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4. Andersson, T., Södersten, E., Duckworth, J.K., Cascante, A., Fritz, N., Sacchetti, P., Cervenka, I., Bryja, V. and Hermanson, O. 2009. CXXC5 is a novel BMP4-regulated modulator of Wnt signaling in neural stem cells. *J. Biol. Chem.* 284: 3672-3681.
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## CHROMOSOMAL LOCATION

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

## SOURCE

CXXC5 (H-143) is a rabbit polyclonal antibody raised against amino acids 116-258 mapping within an internal region of CXXC5 of human origin.

## PRODUCT

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

## 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.

## APPLICATIONS

CXXC5 (H-143) is recommended for detection of CXXC5 isoforms 1 and 2 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

CXXC5 (H-143) is also recommended for detection of CXXC5 isoforms 1 and 2 in additional species, including equine, canine, bovine and porcine.

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: 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.

## PROTOCOLS

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Try **CXXC5 (H-6): sc-376348**, our highly recommended monoclonal alternative to CXXC5 (H-143).