

# CXXC5 (H-6): sc-376348

## 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.

## CHROMOSOMAL LOCATION

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

## SOURCE

CXXC5 (H-6) is a mouse monoclonal antibody raised against amino acids 116-258 mapping within an internal region of CXXC5 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CXXC5 (H-6) is available conjugated to agarose (sc-376348 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376348 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376348 PE), fluorescein (sc-376348 FITC), Alexa Fluor® 488 (sc-376348 AF488), Alexa Fluor® 546 (sc-376348 AF546), Alexa Fluor® 594 (sc-376348 AF594) or Alexa Fluor® 647 (sc-376348 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376348 AF680) or Alexa Fluor® 790 (sc-376348 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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## APPLICATIONS

CXXC5 (H-6) 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 1:100-1:1000), 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).

CXXC5 (H-6) is also recommended for detection of CXXC5 isoforms 1 and 2 in additional species, including equine, canine 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.

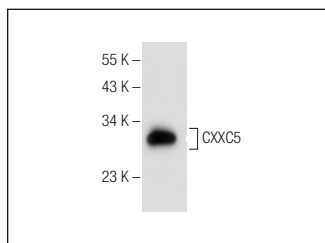
Molecular Weight of CXXC5: 33 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

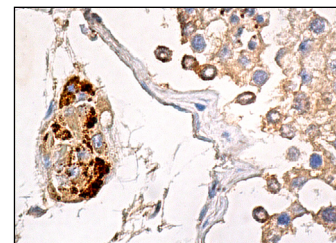
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

## DATA



CXXC5 (H-6): sc-376348. Western blot analysis of CXXC5 expression in HeLa whole cell lysate.



CXXC5 (H-6): sc-376348. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing strong cytoplasmic staining of Leydig cells.

## SELECT PRODUCT CITATIONS

- Marshall, P.A., Hernandez, Z., Kaneko, I., Widener, T., Tabacaru, C., Aguayo, I. and Jurutka, P.W. 2012. Discovery of novel vitamin D receptor interacting proteins that modulate 1,25-dihydroxyvitamin D<sub>3</sub> signaling. *J. Steroid Biochem. Mol. Biol.* 132: 147-159.
- Ryu, Y.C., Park, J., Kim, Y.R., Choi, S., Kim, G.U., Kim, E., Hwang, Y., Kim, H., Han, G., Lee, S.H. and Choi, K.Y. 2023. CXXC5 mediates DHT-induced androgenetic alopecia via PGD<sub>2</sub>. *Cells* 12: 555.

## 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](http://www.scbt.com) for detailed protocols and support products.