

# ZNF2 (C-12): sc-109176



The Power to Question

## 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. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. As a member of the krüppel C<sub>2</sub>H<sub>2</sub>-type zinc-finger protein family, ZNF2 (zinc-finger protein 2), also known as zinc-finger protein 2.2 and zinc-finger protein 661, is a 425 amino acid nuclear protein that contains one KRAB domain and 9 C<sub>2</sub>H<sub>2</sub>-type zinc fingers. The gene encoding ZNF2 maps to human chromosome 2, which houses over 1,400 genes and comprises nearly 8% of the human genome. Harlequin ichthyosis, a rare and morbid skin deformity, is associated with mutations in the chromosome 2-localized ABCA12 gene, while the lipid metabolic disorder sitosterolemia is associated with defects in the ABCG5 and ABCG8 genes, which also map to chromosome 2.

## REFERENCES

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3. Rocchi, M., et al. 1999. The human KRAB/FPB containing zinc finger gene ZNF2 maps to chromosome 2q11.2. *Cytogenet. Cell Genet.* 86: 305-306.
4. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 194500. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Riviello, V., et al. 2005. Expression, purification and partial characterization of the Krüppel-associated box (KRAB) from the human ZNF2 protein. *Protein Pept. Lett.* 12: 527-532.
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7. Wienk, H., et al. 2009. The tandem zinc-finger region of human ZHX adopts a novel C<sub>2</sub>H<sub>2</sub> zinc finger structure with a C-terminal extension. *Biochemistry* 48: 4431-4439.
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## CHROMOSOMAL LOCATION

Genetic locus: ZNF2 (human) mapping to 2q11.1; Zfp661 (mouse) mapping to 2 F1.

## SOURCE

ZNF2 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of ZNF2 of human origin.

## RESEARCH USE

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

## PRODUCT

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

Blocking peptide available for competition studies, sc-109176 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ZNF2 (C-12) is recommended for detection of ZNF2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

ZNF2 (C-12) is also recommended for detection of ZNF2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ZNF2 siRNA (h): sc-94869, ZNF2 siRNA (m): sc-155651, ZNF2 shRNA Plasmid (h): sc-94869-SH, ZNF2 shRNA Plasmid (m): sc-155651-SH, ZNF2 shRNA (h) Lentiviral Particles: sc-94869-V and ZNF2 shRNA (m) Lentiviral Particles: sc-155651-V.

Molecular Weight of ZNF2: 49 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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