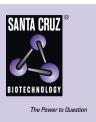
## SANTA CRUZ BIOTECHNOLOGY, INC.

# ZNF2 (C-2): sc-515483



#### 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  $C_2H_2$ -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  $C_2H_2$ -type zinc fingers. The gene encoding ZNF2 maps to human chromosome 2q11.1, which houses over 1,400 genes and comprises nearly 8% of the human genome. Harlequin icthyosis, 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

- Miller, J., et al. 1985. Repetitive zinc-binding domains in the protein transcription factor IIIA from *Xenopus* oocytes. EMBO J. 4: 1609-1614.
- Rosati, M., et al. 1991. Members of the zinc finger protein gene family sharing a conserved N-terminal module. Nucleic Acids Res. 19: 5661-5667.
- 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/
- Rivieccio, 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.

## CHROMOSOMAL LOCATION

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

## SOURCE

ZNF2 (C-2) is a mouse monoclonal antibody raised against amino acids 345-425 mapping at the C-terminus of ZNF2 of human origin.

### PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>2a</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ZNF2 (C-2) is available conjugated to agarose (sc-515483 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515483 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515483 PE), fluorescein (sc-515483 FITC), Alexa Fluor<sup>®</sup> 488 (sc-515483 AF488), Alexa Fluor<sup>®</sup> 546 (sc-515483 AF546), Alexa Fluor<sup>®</sup> 594 (sc-515483 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-515483 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-515483 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-515483 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

#### APPLICATIONS

ZNF2 (C-2) is recommended for detection of ZNF2 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

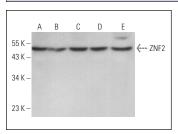
Molecular Weight of ZNF2: 49 kDa.

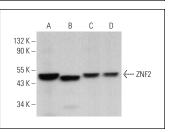
Positive Controls: A-10 cell lysate: sc-3806, NIH/3T3 whole cell lysate: sc-2210 or C2C12 whole cell lysate: sc-364188.

#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> 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-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

#### DATA





ZNF2 (C-2): sc-515483. Western blot analysis of ZNF2 expression in A-10 (A), C2C12 (B), NIH/3T3 (C), HEL 92.1.7 (D) and U-251-MG (E) whole cell lysates.

ZNF2 (C-2): sc-515483. Western blot analysis of ZNF2 expression in rat heart (A), mouse heart (B), rat postnatal heart (C) and mouse postnatal heart (D) tissue extracts. Detection reagent used: m-IgG $\kappa$  BP-HRP: sc-516102.

## 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.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA