

ZNF35 (C-11): sc-376972

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. ZNF35 (zinc finger protein 35), also known as HF.10, HF10 or Zfp105, is a zinc finger protein that localizes to the nucleus and belongs to the Krüppel C₂H₂-type zinc finger protein family. ZNF35 contains 11 C₂H₂-type zinc fingers and may play a role in transcriptional regulation as well as cell differentiation and proliferation. The gene encoding ZNF35 maps to chromosome 3 in the region often involved in deletions or karyotypic rearrangements that have been associated with a variety of tumors including renal and lung carcinoma. The mouse homolog of ZNF35, Zfp105, is highly expressed in testis, particularly in round spermatids and pachytene spermatocytes.

REFERENCES

1. Dotti, E., et al. 1990. Localization of the human HF.10 finger gene on a chromosome region (3p21-22) frequently deleted in human cancers. *Hum. Genet.* 84: 391-395.
2. Lanfranccone, L., et al. 1992. Structural and functional organization of the HF.10 human zinc finger gene (ZNF35) located on chromosome 3p21-p22. *Genomics* 12: 720-728.
3. Pengue, G., et al. 1993. The ZNF35 human zinc finger gene encodes a sequence-specific DNA-binding protein. *FEBS Lett.* 321: 233-236.
4. Kohno, T., et al. 1993. Deletion mapping of chromosome 3p in human uterine cervical cancer. *Oncogene* 8: 1825-1832.

CHROMOSOMAL LOCATION

Genetic locus: ZNF35 (human) mapping to 3p21.31.

SOURCE

ZNF35 (C-11) is a mouse monoclonal antibody raised against amino acids 21-220 mapping near the N-terminus of ZNF35 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-376972 X, 200 µg/0.1 ml.

ZNF35 (C-11) is available conjugated to agarose (sc-376972 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376972 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376972 PE), fluorescein (sc-376972 FITC), Alexa Fluor® 488 (sc-376972 AF488), Alexa Fluor® 546 (sc-376972 AF546), Alexa Fluor® 594 (sc-376972 AF594) or Alexa Fluor® 647 (sc-376972 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376972 AF680) or Alexa Fluor® 790 (sc-376972 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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

APPLICATIONS

ZNF35 (C-11) is recommended for detection of ZNF35 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).

Suitable for use as control antibody for ZNF35 siRNA (h): sc-78554, ZNF35 shRNA Plasmid (h): sc-78554-SH and ZNF35 shRNA (h) Lentiviral Particles: sc-78554-V.

ZNF35 (C-11) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

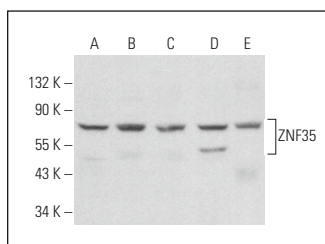
Molecular Weight of ZNF35: 58 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa whole cell lysate: sc-2200 or RAW 264.7 whole cell lysate: sc-2211.

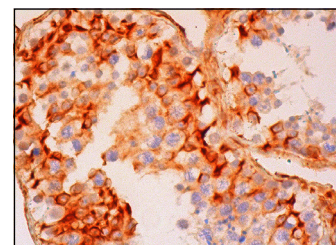
RECOMMENDED SUPPORT REAGENTS

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



ZNF35 (C-11): sc-376972. Western blot analysis of ZNF35 expression in Jurkat (A), HeLa (B), T-47D (C) and RAW 264.7 (D) whole cell lysates and KNRK nuclear extract (E).



ZNF35 (C-11): sc-376972. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic and membrane staining of cells in seminiferous ducts.

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.