

# ZNF37A (H-120): sc-98283

## 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. ZNF37A, also called KOX21, is a member of the Krüppel C<sub>2</sub>H<sub>2</sub>-type zinc-finger family of transcriptional regulators. Located in the nucleus, ZNF37A is a 561 amino acid protein containing one KRAB domain and 12 C<sub>2</sub>H<sub>2</sub>-type zinc fingers. The gene encoding ZNF37A is found in a KOX zinc-finger cluster located on chromosome 10p11.1.

## REFERENCES

1. Tunnacliffe, A., et al. 1993. Duplicated KOX zinc-finger gene clusters flank the centromere of human chromosome 10: evidence for a pericentric inversion during primate evolution. *Nucleic Acids Res.* 21: 1409-1417.
2. Becker, K.G., et al. 1995. Rapid isolation and characterization of 118 novel C<sub>2</sub>H<sub>2</sub>-type zinc finger cDNAs expressed in human brain. *Hum. Mol. Genet.* 4: 685-691.
3. Jackson, M.S., et al. 1997. A 9.75-Mb map across the centromere of human chromosome 10. *Genomics* 33: 258-270.
4. Jackson, M.S., et al. 1999. Sequences flanking the centromere of human chromosome 10 are a complex patchwork of arm-specific sequences, stable duplications and unstable sequences with homologies to telomeric and other centromeric locations. *Hum. Mol. Genet.* 8: 205-215.
5. Guy, J., et al. 2003. Genomic sequence and transcriptional profile of the boundary between pericentromeric satellites and genes on human chromosome arm 10p. *Genome Res.* 13: 159-172.
6. O'Green, H., et al. 2007. Genome-wide analysis of KAP1 binding suggests autoregulation of KRAB-ZNFs. *PLoS Genet.* 3: e89.

## CHROMOSOMAL LOCATION

Genetic locus: ZNF37A (human) mapping to 10p11.1.

## SOURCE

ZNF37A (H-120) is a rabbit polyclonal antibody raised against amino acids 81-200 mapping near the N-terminus of ZNF37A 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-98283 X, 200 µg/0.1 ml.

## 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

ZNF37A (H-120) is recommended for detection of ZNF37A of 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).

Suitable for use as control antibody for ZNF37A siRNA (h): sc-90767, ZNF37A shRNA Plasmid (h): sc-90767-SH and ZNF37A shRNA (h) Lentiviral Particles: sc-90767-V.

ZNF37A (H-120) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of ZNF37A: 65 kDa.

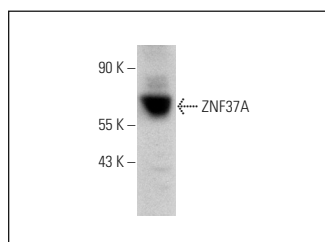
Molecular Weight (observed) of ZNF37A: 70 kDa.

Positive Controls: ZNF37A (h): 293T Lysate: sc-178171, Jurkat nuclear extract: sc-2132 or Hep G2 cell lysate: sc-2227.

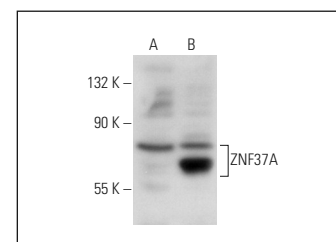
## RECOMMENDED SECONDARY REAGENTS

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.

## DATA



ZNF37A (H-120): sc-98283. Western blot analysis of ZNF37A expression in Jurkat nuclear extract.



ZNF37A (H-120): sc-98283. Western blot analysis of ZNF37A expression in non-transfected: sc-117752 (A) and human ZNF37A transfected: sc-178171 (B) 293T whole cell lysates.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.