

ZNF703 (E-6): sc-271896



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. ZNF703 (zinc-finger protein 703) is a 590 amino acid nuclear protein that contains one C₂H₂-type zinc-finger and is thought to play a role in transcriptional regulation. Multiple isoforms of ZNF703 exist due to alternative splicing events. The gene encoding ZNF703 maps to human chromosome 8, which consists of nearly 146 million base pairs, houses more than 800 genes and is associated with a variety of diseases and malignancies. Schizophrenia, bipolar disorder, Trisomy 8, Pfeiffer syndrome, congenital hypothyroidism, Waardenburg syndrome and some leukemias and lymphomas are thought to occur as a result of defects in specific genes that map to chromosome 8.

REFERENCES

1. Wildenauer, D.B., et al. 1999. Chromosomes 8 and 10 workshop. *Am. J. Med. Genet.* 88: 239-243.
2. Kashino, G., et al. 2001. Preferential expression of an intact WRN gene in Werner syndrome cell lines in which a normal chromosome 8 has been introduced. *Biochem. Biophys. Res. Commun.* 289: 111-115.
3. Selicorni, A., et al. 2002. Cytogenetic mapping of a novel locus for type II Waardenburg syndrome. *Hum. Genet.* 110: 64-67.
4. McQueen, M.B., et al. 2005. Combined analysis from eleven linkage studies of bipolar disorder provides strong evidence of susceptibility loci on chromosomes 6q and 8q. *Am. J. Hum. Genet.* 77: 582-595.

CHROMOSOMAL LOCATION

Genetic locus: ZNF703 (human) mapping to 8p11.23; Zfp703 (mouse) mapping to 8 A2.

SOURCE

ZNF703 (E-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 21-43 near the N-terminus of ZNF703 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-271896 X, 200 µg/0.1 ml.

ZNF703 (E-6) is available conjugated to agarose (sc-271896 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271896 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271896 PE), fluorescein (sc-271896 FITC), Alexa Fluor® 488 (sc-271896 AF488), Alexa Fluor® 546 (sc-271896 AF546), Alexa Fluor® 594 (sc-271896 AF594) or Alexa Fluor® 647 (sc-271896 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-271896 AF680) or Alexa Fluor® 790 (sc-271896 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-271896 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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APPLICATIONS

ZNF703 (E-6) is recommended for detection of ZNF703 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).

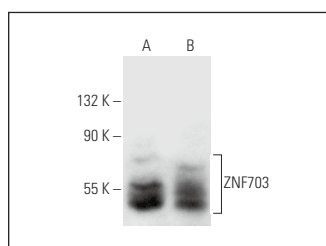
Suitable for use as control antibody for ZNF703 siRNA (h): sc-76999, ZNF703 siRNA (m): sc-77000, ZNF703 shRNA Plasmid (h): sc-76999-SH, ZNF703 shRNA Plasmid (m): sc-77000-SH, ZNF703 shRNA (h) Lentiviral Particles: sc-76999-V and ZNF703 shRNA (m) Lentiviral Particles: sc-77000-V.

ZNF703 (E-6) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

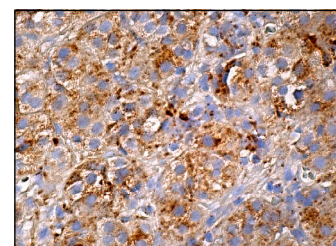
Molecular Weight of ZNF703: 58 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or Hep G2 cell lysate: sc-2227.

DATA



ZNF703 (E-6): sc-271896. Western blot analysis of ZNF703 expression in Jurkat (A) and Hep G2 (B) whole cell lysates.



ZNF703 (E-6): sc-271896. Immunoperoxidase staining of formalin fixed, paraffin-embedded human adrenal gland tissue showing cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

1. Wang, S., et al. 2020. ZNF703 promotes tumor progression in ovarian cancer by interacting with HE4 and epigenetically regulating PEA15. *J. Exp. Clin. Cancer Res.* 39: 264.

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 for detailed protocols and support products.