SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF326 (F-11): sc-390606

SANTA CRUZ BIOTECHNOLOGY

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. ZNF326 (zinc finger protein 326), also known as ZAN75 or Zfp326, is a 582 amino acid protein that belongs to the AKAP95 family. Localized to the nuclear matrix, ZNF326 is thought to function as a transcriptional activator that may play a role in neuronal differentiation events during development. Two isoforms of ZNF326 exist due to alternative splicing.

CHROMOSOMAL LOCATION

Genetic locus: ZNF326 (human) mapping to 1p22.2; Zfp326 (mouse) mapping to 5 E5.

SOURCE

ZNF326 (F-11) is a mouse monoclonal antibody raised against amino acids 67-233 mapping within an internal region of ZNF326 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ZNF326 (F-11) is available conjugated to agarose (sc-390606 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-390606 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390606 PE), fluorescein (sc-390606 FITC), Alexa Fluor® 488 (sc-390606 AF488), Alexa Fluor® 546 (sc-390606 AF546), Alexa Fluor® 594 (sc-390606 AF594) or Alexa Fluor® 647 (sc-390606 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390606 AF680) or Alexa Fluor® 790 (sc-390606 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

ZNF326 (F-11) is recommended for detection of ZNF326 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 ZNF326 siRNA (h): sc-88338, ZNF326 siRNA (m): sc-155687, ZNF326 shRNA Plasmid (h): sc-88338-SH, ZNF326 shRNA Plasmid (m): sc-155687-SH, ZNF326 shRNA (h) Lentiviral Particles: sc-88338-V and ZNF326 shRNA (m) Lentiviral Particles: sc-155687-V.

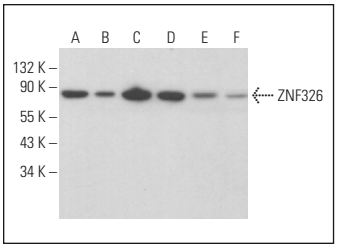
Molecular Weight of ZNF326: 65 kDa.

Positive Controls: ZNF326 (h): 293T Lysate: sc-111625, K-562 whole cell lysate: sc-2203 or HeLa whole cell lysate: sc-2200.

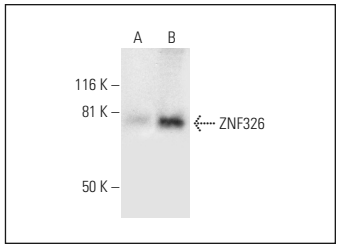
RECOMMENDED SUPPORT REAGENTS

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.

DATA



ZNF326 (F-11): sc-390606. Western blot analysis of ZNF326 expression in HEK293 (**A**), HEL 92.1.7 (**B**), K-562 (**C**), HeLa (**D**), c4 (**E**) and F9 (**F**) whole cell lysates.



ZNF326 (F-11): sc-390606. Western blot analysis of ZNF326 expression in non-transfected: sc-117752 (**A**) and human ZNF326 transfected: sc-111625 (**B**) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Yu, X., et al. 2018. ZNF326 promotes a malignant phenotype of breast cancer by interacting with DBC1. Mol. Carcinog. 57: 1803-1815.
2. Yu, X., et al. 2019. ZNF326 promotes malignant phenotype of glioma by up-regulating HDAC7 expression and activating Wnt pathway. J. Exp. Clin. Cancer Res. 38: 40.
3. Yang, Y., et al. 2021. ZNF326 promotes colorectal cancer epithelial-mesenchymal transition. Pathol. Res. Pract. 225: 153554.

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.