SANTA CRUZ BIOTECHNOLOGY, INC.

ZRANB2 (E-16): sc-102198

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. ZRANB2 (zinc finger Ran-binding domain-containing protein 2), also known as ZNF265 (zinc finger protein 265), ZIS, ZIS1 or ZIS2, is a 330 amino acid protein that belongs to the ZRANB2 family. Localized to the nucleus, ZRANB2 functions as a splicing factor that is responsible for alternatively splicing Tra-2β (transformer-2 β) transcripts and is thought to interfere with constitutive 5'-splice selection. ZRANB2 contains two RanBP2-type zinc fingers through which it conveys its RNA-binding activity. Two isoforms, designated ZIS-1 and ZIS-2, are expressed due to alternative splicing events. Upon DNA damage, ZIS-2 may be phosphorylated by ATM or ATR.

REFERENCES

1. Nakano, M., et al. 1998. Identification, characterization and mapping of the human ZIS (zinc-finger, splicing) gene. Gene 225: 59-65.
2. Adams, D.J., et al. 2000. Chromosome localization and characterization of the mouse and human zinc finger protein 265 gene. Cytogenet. Cell Genet. 88: 68-73.

CHROMOSOMAL LOCATION

Genetic locus: ZRANB2 (human) mapping to 1p31.1; Zranb2 (mouse) mapping to 3 H4.

SOURCE

ZRANB2 (E-16) is a purified rabbit polyclonal antibody raised against ZRANB2 of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

ZRANB2 (E-16) is recommended for detection of ZRANB2 of mouse, rat, human and canine 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), 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 ZRANB2 siRNA (h): sc-78863, ZRANB2 siRNA (m): sc-155672, ZRANB2 shRNA Plasmid (h): sc-78863-SH, ZRANB2 shRNA Plasmid (m): sc-155672-SH, ZRANB2 shRNA (h) Lentiviral Particles: sc-78863-V and ZRANB2 shRNA (m) Lentiviral Particles: sc-155672-V.

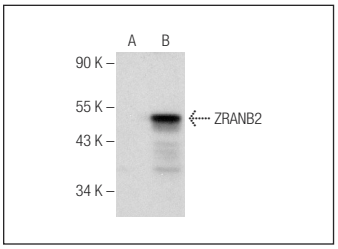
Molecular Weight of ZRANB2: 55 kDa.

Positive Controls: ZRANB2 (h2): 293T Lysate: sc-370093, HeLa whole cell lysate: sc-2200 or K-562 nuclear extract: sc-2130.

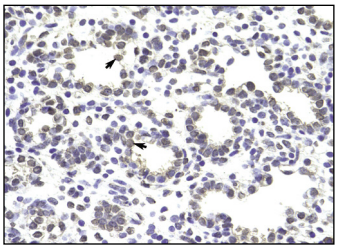
RECOMMENDED SECONDARY REAGENTS

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



ZRANB2 (E-16): sc-102198. Western blot analysis of ZRANB2 expression in non-transfected: sc-117752 (**A**) and human ZRANB2 transfected: sc-370093 (**B**) 293T whole cell lysates.



ZRANB2 (E-16): sc-102198. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human lung tissue showing nuclear staining.

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 or our catalog for detailed protocols and support products.