

# ZNF265 (B-5): sc-514200

## 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. ZNF265 (zinc finger protein 265), also known as ZRANB2 (zinc finger Ran-binding domain-containing protein 2), ZIS, ZIS1 or ZIS2, is a 330 amino acid protein that belongs to the ZRANB2 family. Localized to the nucleus, ZNF265 functions as a splicing factor that is responsible for alternatively splicing Tra-2 $\beta$  (transformer-2  $\beta$ ) transcripts and is thought to interfere with constitutive 5'-splice selection. ZNF265 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.

## CHROMOSOMAL LOCATION

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

## SOURCE

ZNF265 (B-5) is a mouse monoclonal antibody raised against amino acids 28-102 mapping near the N-terminus of ZNF265 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>2a</sub> 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-514200 X, 200  $\mu$ g/0.1 ml.

ZRANB2 (B-5) is available conjugated to agarose (sc-514200 AC), 500  $\mu$ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-514200 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514200 PE), fluorescein (sc-514200 FITC), Alexa Fluor<sup>®</sup> 488 (sc-514200 AF488), Alexa Fluor<sup>®</sup> 546 (sc-514200 AF546), Alexa Fluor<sup>®</sup> 594 (sc-514200 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-514200 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-514200 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-514200 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

## APPLICATIONS

ZRANB2 (B-5) is recommended for detection of ZRANB2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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 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.

ZNF265 (B-5) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

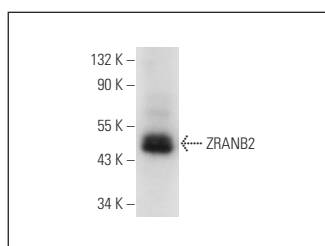
Molecular Weight of ZNF265: 55 kDa.

Positive Controls: PC-12 cell lysate: sc-2250.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> 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-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

## DATA



ZRANB2 (B-5): sc-514200. Western blot analysis of ZRANB2 expression in PC-12 whole cell lysate.

## SELECT PRODUCT CITATIONS

- Banerjee, M., et al. 2020. Arsenite exposure displaces zinc from ZRANB2 leading to altered splicing. *Chem. Res. Toxicol.* 33: 1403-1417.
- Zhang, H., et al. 2021. Chemotoxicity-induced exosomal IncFERO regulates ferroptosis and stemness in gastric cancer stem cells. *Cell Death Dis.* 12: 1116.

## 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](http://www.scbt.com) for detailed protocols and support products.

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