

# ZRANB2 (H-75): sc-292290

## 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-2 $\beta$  (transformer-2  $\beta$ ) 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

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## CHROMOSOMAL LOCATION

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

## SOURCE

ZRANB2 (H-75) is a rabbit polyclonal antibody raised against amino acids 28-102 mapping near the N-terminus of ZRANB2 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g 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-292290 X, 200  $\mu$ g/0.1 ml.

## APPLICATIONS

ZRANB2 (H-75) is recommended for detection of ZRANB2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

ZRANB2 (H-75) is also recommended for detection of ZRANB2 in additional species, including equine, canine, bovine, porcine and avian.

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.

ZRANB2 (H-75) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ZRANB2: 55 kDa.

## 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<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941.

## 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) or our catalog for detailed protocols and support products.