

ZFR (H-153): sc-135326

BACKGROUND

ZFR (zinc finger RNA-binding protein), also known as M-phase phosphoprotein homolog, is 1,074 amino acid RNA-binding protein. In human, ZFR is expressed in lung, liver, lymphocytes, heart, pancreas, kidney and placenta, and regulates postimplantation and gastrulation stages of development. Murine ZFR is observed in testis, ovary and brain. With elevated levels of expression during meiosis, ZFR associates with chromosome foci in meiotic cells. ZFR contains one DZF domain and localizes in the somatodendritic compartment of hippocampal neurons and co-localizes with STAU2 in cytosolic RNA granules. Knock-out of ZFR in mouse embryo prevents the development of some embryonic structures leads to an increase in programmed cell death with a decrease in mitotic index.

REFERENCES

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- Schmutz, J., et al. 2004. The DNA sequence and comparative analysis of human chromosome 5. *Nature* 431: 268-274.
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CHROMOSOMAL LOCATION

Genetic locus: ZFR (human) mapping to 5p13.3; Zfr (mouse) mapping to 15 A1.

SOURCE

ZFR (H-153) is a rabbit polyclonal antibody raised against amino acids 418-570 mapping within an internal region of ZFR of human origin.

PRODUCT

Each vial contains 200 µg 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-135326 X, 200 µg/0.1 ml.

STORAGE

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

APPLICATIONS

ZFR (H-153) is recommended for detection of ZFR of mouse, rat and human 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with ZFR2.

ZFR (H-153) is also recommended for detection of ZFR in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for ZFR siRNA (h): sc-91637, ZFR siRNA (m): sc-155598, ZFR shRNA Plasmid (h): sc-91637-SH, ZFR shRNA Plasmid (m): sc-155598-SH, ZFR shRNA (h) Lentiviral Particles: sc-91637-V and ZFR shRNA (m) Lentiviral Particles: sc-155598-V.

ZFR (H-153) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ZFR: 117 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™ 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.

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.