

## ZMYM4 (G-13): sc-165954

### 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. ZNF262, also known as ZMYM4, is a 1,548 amino acid protein that contains 9 MYM-type zinc fingers. Four ZNF262 isoforms are expressed due to alternative splicing events, and are found in heart, skeletal muscle, kidney and liver. Upon DNA damage, ZNF262 may be phosphorylated by ATM or ATR. The mRNA encoding ZNF262 contains a CDIR motif (cell death inhibiting RNA) which binds to HNRPD/AUF1 and HSPB1/HSP27 and can inhibit FN- $\gamma$  induced apoptosis. The gene encoding ZNF262 maps to chromosome 1, which spans about 260 million base pairs and comprises nearly 8% of the human genome.

### REFERENCES

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- Sohal, J., et al. 1999. Assignment of ZNF262 to human chromosome band 1p34→p32 by *in situ* hybridization. *Cytogenet. Cell Genet.* 85: 306-307.
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### CHROMOSOMAL LOCATION

Genetic locus: ZMYM4 (human) mapping to 1p34.3; Zmym4 (mouse) mapping to 4 D2.2.

### SOURCE

ZMYM4 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ZMYM4 of human origin.

### STORAGE

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

### PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-165954 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

ZMYM4 (G-13) is recommended for detection of ZMYM4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

ZMYM4 (G-13) is also recommended for detection of ZMYM4 in additional species, including equine, canine and bovine.

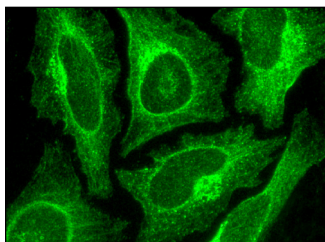
Suitable for use as control antibody for ZMYM4 siRNA (h): sc-88661, ZMYM4 siRNA (m): sc-155670, ZMYM4 shRNA Plasmid (h): sc-88661-SH, ZMYM4 shRNA Plasmid (m): sc-155670-SH, ZMYM4 shRNA (h) Lentiviral Particles: sc-88661-V and ZMYM4 shRNA (m) Lentiviral Particles: sc-155670-V.

Molecular Weight of ZMYM4 isoforms 1/2/3/4: 173/163/136/170 kDa.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### DATA



ZNF262 (G-13): sc-165954. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and membrane localization.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.