

ZMYM6 (P-18): sc-102196

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. ZMYM6 (zinc finger, MYM-type 6), also known as ZNF258, ZBED7, Buster2 or ZNF198L4, is a 1,325 amino acid nuclear protein containing 8 MYM-type zinc fingers. ZMYM6 is thought to play a role in the regulation of cell morphology and cytoskeletal organization. ZMYM6 is highly expressed in heart, skeletal muscle, kidney and liver tissues, and five isoforms are expressed due to alternative splicing events. The ZMYM6 gene is conserved in chimpanzee, Rhesus monkey, canine, bovine, mouse, and rat and maps to chromosome 1, which spans about 260 million base pairs and comprises nearly 8% of the human genome.

REFERENCES

1. Smedley, D., et al. 1999. Cloning and mapping of members of the MYM family. *Genomics* 60: 244-247.
2. Herrmann, C.H. and Mancini, M.A. 2001. The Cdk9 and cyclin T subunits of TAK/P-TEFb localize to splicing factor-rich nuclear speckle regions. *J. Cell Sci.* 114: 1491-1503.
3. Lin, X., et al. 2002. P-TEFb containing cyclin K and Cdk9 can activate transcription via RNA. *J. Biol. Chem.* 277: 16873-16878.
4. Weise, A., et al. 2005. New insights into the evolution of chromosome 1. *Cytogenet. Genome Res.* 108: 217-222.
5. Bai, S.W., et al. 2011. Identification and characterization of a set of conserved and new regulators of cytoskeletal organization, cell morphology and migration. *BMC Biol.* 9: 54.
6. Hayward, A., et al. 2013. ZBED evolution: repeated utilization of DNA transposons as regulators of diverse host functions. *PLoS ONE* 8: e59940.

CHROMOSOMAL LOCATION

Genetic locus: ZMYM6 (human) mapping to 1p34.3.

SOURCE

ZMYM6 (P-18) is a purified rabbit polyclonal antibody raised against ZMYM6 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.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

APPLICATIONS

ZMYM6 (P-18) is recommended for detection of ZMYM6 of 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), 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 ZMYM6 siRNA (h): sc-78680, ZMYM6 shRNA Plasmid (h): sc-78680-SH and ZMYM6 shRNA (h) Lentiviral Particles: sc-78680-V.

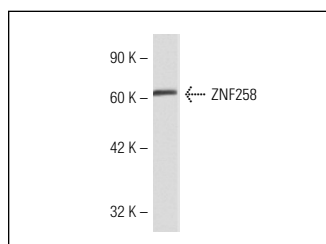
Molecular Weight of ZMYM6: 148 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

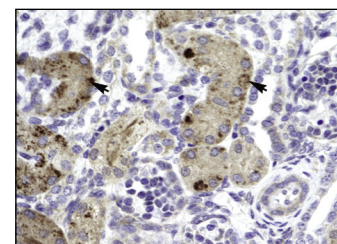
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



ZMYM6 (P-18): sc-102196. Western blot analysis of ZMYM6 expression in Jurkat whole cell lysate.



ZMYM6 (P-18): sc-102196. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing nuclear and cytoplasmic staining.

RESEARCH USE

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