

ZSWIM3 (D-17): sc-86065

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. ZSWIM3 (zinc finger SWIM domain-containing protein 3) is a 696 amino acid protein that contains one SWIM-type zinc finger. SWIM domains are found in a variety of eukaryotic and prokaryotic proteins and are thought to be critical for certain ubiquitination reactions. The gene encoding ZSWIM3 maps to human chromosome 20, which contains nearly 63 million bases that encode over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome.

REFERENCES

1. Klug, A. 1999. Zinc finger peptides for the regulation of gene expression. *J. Mol. Biol.* 293: 215-218.
2. Laity, J.H., Lee, B.M. and Wright, P.E. 2001. Zinc finger proteins: new insights into structural and functional diversity. *Curr. Opin. Struct. Biol.* 11: 39-46.
3. Matthews, J.M. and Sunde, M. 2002. Zinc fingers-folds for many occasions. *IUBMB Life* 54: 351-355.
4. Hall, T.M. 2005. Multiple modes of RNA recognition by zinc finger proteins. *Curr. Opin. Struct. Biol.* 15: 367-373.
5. Nishito, Y., Hasegawa, M., Inohara, N. and Núñez, G. 2006. MEX is a testis-specific E3 ubiquitin ligase that promotes death receptor-induced apoptosis. *Biochem. J.* 396: 411-417.
6. Tucker, E.S., Segall, S., Gopalakrishna, D., Wu, Y., Vernon, M., Polleux, F. and Lamantia, A.S. 2008. Molecular specification and patterning of progenitor cells in the lateral and medial ganglionic eminences. *J. Neurosci.* 28: 9504-9518.
7. Lin, R., Teng, Y., Park, H.J., Ding, L., Black, C., Fang, P. and Wang, H. 2008. Discrete and essential roles of the multiple domains of *Arabidopsis* FHY3 in mediating phytochrome A signal transduction. *Plant Physiol.* 148: 981-992.

CHROMOSOMAL LOCATION

Genetic locus: ZSWIM3 (human) mapping to 20q13.12; Zswim3 (mouse) mapping to 2 H3.

SOURCE

ZSWIM3 (D-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZSWIM3 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.

Blocking peptide available for competition studies, sc-86065 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-86065 X, 100 µg/0.1 ml.

APPLICATIONS

ZSWIM3 (D-17) is recommended for detection of ZSWIM3 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); non cross-reactive with ZSWIM1.

ZSWIM3 (D-17) is also recommended for detection of ZSWIM3 in additional species, including equine.

Suitable for use as control antibody for ZSWIM3 siRNA (h): sc-77018, ZSWIM3 siRNA (m): sc-155844, ZSWIM3 shRNA Plasmid (h): sc-77018-SH, ZSWIM3 shRNA Plasmid (m): sc-155844-SH, ZSWIM3 shRNA (h) Lentiviral Particles: sc-77018-V and ZSWIM3 shRNA (m) Lentiviral Particles: sc-155844-V.

ZSWIM3 (D-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of ZSWIM3: 79 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.

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 or our catalog for detailed protocols and support products.