SANTA CRUZ BIOTECHNOLOGY, INC.

ZSWIM1 (G-5): sc-390688

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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. ZSWIM1 (zinc finger SWIM domain-containing protein 1), also known as C20orf162, is a 485 amino acid protein that contains one SWIM-type zinc finger. The gene encoding ZSWIM1 maps to human chromosome 20. Comprising approximately 2% of the human genome, chromosome 20 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. Additionally, chromosome 20 contains a region with numerous genes which are thought important for seminal production and may be potential targets for male contraception.

CHROMOSOMAL LOCATION

Genetic locus: ZSWIM1 (human) mapping to 20q13.12; Zswim1 (mouse) mapping to 2 H3.

SOURCE

ZSWIM1 (G-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 463-484 of ZSWIM1 of human origin.

PRODUCT

Each vial contains 200 µg IgM kappa light chain 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-390688 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-390688 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

ZSWIM1 (G-5) is recommended for detection of ZSWIM1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

ZSWIM1 (G-5) is also recommended for detection of ZSWIM1 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for ZSWIM1 siRNA (h): sc-77017, ZSWIM1 siRNA (m): sc-155842, ZSWIM1 shRNA Plasmid (h): sc-77017-SH, ZSWIM1 shRNA Plasmid (m): sc-155842-SH, ZSWIM1 shRNA (h) Lentiviral Particles: sc-77017-V and ZSWIM1 shRNA (m) Lentiviral Particles: sc-155842-V.

ZSWIM1 (G-5) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

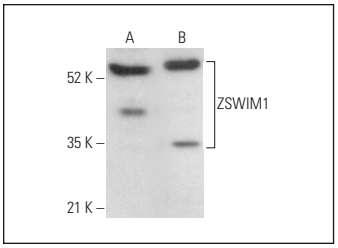
Molecular Weight of ZSWIM1: 55 kDa.

Positive Controls: MIA PaCa-2 cell lysate: sc-2285 or rat testis extract: sc-2400.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein L-Agarose: sc-2336 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



ZSWIM1 (G-5): sc-390688. Western blot analysis of ZSWIM1 expression in MIA PaCa-2 whole cell lysate (**A**) and rat testis tissue extract (**B**).

SELECT PRODUCT CITATIONS

1. Gao, X., et al. 2022. ZSWIM1 promotes the proliferation and metastasis of lung adenocarcinoma cells through the STK38/MEKK2/ERK1/2 axis. J. Proteome Res. E-published.

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 for detailed protocols and support products.