

MZF-1 (N-13): sc-46178

BACKGROUND

Zinc finger genes encode metal-binding proteins are transcriptional regulators of other genes. Myeloid zinc finger 1 (MZF-1), also designated zinc finger protein 42, and transcription factor ZBP-89, also designated zinc finger protein 148, belong to the Krüppel C₂H₂-type zinc-finger protein family. The gene encoding for the MZF-1 protein maps to chromosome 19q13.43, while the gene encoding for ZBP-89 is localized on chromosome 3q21.2. These proteins are nuclear proteins involved in the regulation of transcriptional events. MZF-1 regulates transcription during hemopoietic development and plays a role in myeloid cell differentiation. It regulates the CD34 promoter in a tissue-specific manner. MZF-1 and FHL3 can form a complex of high molecular mass with other proteins in the nucleus. MZF-1 is induced by retinoic acid and is primarily expressed in differentiating myeloid cells.

CHROMOSOMAL LOCATION

Genetic locus: ZNF42 (human) mapping to 19q13.43.

SOURCE

MZF-1 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of MZF-1 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-46178 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-46178 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

MZF-1 (N-13) is recommended for detection of MZF-1 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 MZF-1 siRNA (h): sc-45714, MZF-1 shRNA Plasmid (h): sc-45714-SH and MZF-1 shRNA (h) Lentiviral Particles: sc-45714-V.

MZF-1 (N-13) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

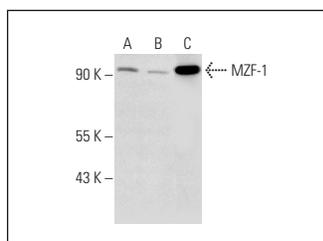
Molecular Weight of MZF1A (MZF1B)/MZF1B-C isoforms: 82/54 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132, MEG-01 cell lysate: sc-2283 or K-562 whole cell lysate: sc-2203.

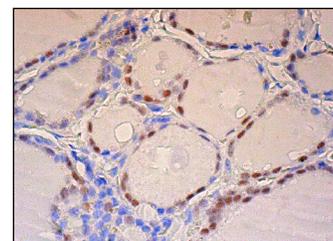
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



MZF-1 (N-13): sc-46178. Western blot analysis of MZF-1 expression in Jurkat (A) and HEL 92.1.7 (B) nuclear extracts and Meg-01 whole cell lysate (C).



MZF-1 (N-13): 46178. Immunoperoxidase staining of formalin fixed, paraffin-embedded human thyroid gland tissue showing nuclear staining of subset of glandular cells.

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.

MONOS
Satisfaction
Guaranteed

Try **MZF-1 (1F7): sc-293218**, our highly recommended monoclonal alternative to MZF-1 (N-13).