



EHZF (Y-19): sc-84809

BACKGROUND

EHZF (early hematopoietic zinc finger protein), also known as zinc finger protein 521 or LYST-interacting protein 3, is a 1,311 amino acid transcription factor that can act as a repressor or an activator of gene transcription. Predominantly expressed in progenitor hematopoietic cells and organs with reduced expression during differentiation, this nuclear protein contains 30 C₂H₂ Krüppel-type zinc fingers that are distributed in clusters throughout its sequence. As a member of the BMP (bone morphogenetic protein) signaling pathway, EHZF interacts with SMAD proteins to activate transcription of BMP target genes. Through interaction with EBF1 (early B cell factor 1), EHZF represses transcription by preventing EBF-DNA binding. With high expression observed in most acute myelogenous leukemias, medulloblastomas and other brain tumors, it is suspected the EHZF may play a role in oncogenesis.

REFERENCES

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3. Bond, H.M., et al. 2004. Early hematopoietic zinc finger protein (EHZF), the human homolog to mouse Evi3, is highly expressed in primitive human hematopoietic cells. *Blood* 103: 2062-2070.
4. Warming, S., et al. 2004. Early B-cell factor-associated zinc-finger gene is a frequent target of retroviral integration in murine B-cell lymphomas. *Oncogene* 23: 2727-2731.
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7. Bond, H.M., et al. 2008. Early hematopoietic zinc finger protein-zinc finger protein 521: a candidate regulator of diverse immature cells. *Int. J. Biochem. Cell Biol.* 40: 848-854.
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CHROMOSOMAL LOCATION

Genetic locus: ZNF521 (human) mapping to 18q11.2; Zfp521 (mouse) mapping to 18 A1.

SOURCE

EHZF (Y-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of EHZF 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 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84809 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-84809 X, 100 µg/0.1 ml.

APPLICATIONS

EHZF (Y-19) is recommended for detection of EHZF 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).

Suitable for use as control antibody for EHZF siRNA (h): sc-77245, EHZF siRNA (m): sc-144605, EHZF shRNA Plasmid (h): sc-77245-SH, EHZF shRNA Plasmid (m): sc-144605-SH, EHZF shRNA (h) Lentiviral Particles: sc-77245-V and EHZF shRNA (m) Lentiviral Particles: sc-144605-V.

EHZF (Y-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of EHZF: 148 kDa.

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) 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.

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.