

EHZF (S-15): sc-84808

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

1. Tchernev, V.T., et al. 2002. The Chediak-Higashi protein interacts with SNARE complex and signal transduction proteins. *Mol. Med.* 8: 56-64.
2. Warming, S., et al. 2003. Evi3, a common retroviral integration site in murine B-cell lymphoma, encodes an EBF- related Krüppel-like zinc finger protein. *Blood* 101: 1934-1940.
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.
5. Hentges, K.E., et al. 2005. Evi3, a zinc-finger protein related to EBF-2, regulates EBF activity in B-cell leukemia. *Oncogene* 24: 1220-1230.

CHROMOSOMAL LOCATION

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

SOURCE

EHZF (S-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of EHZF of human origin.

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-84808 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-84808 X, 100 µg/0.1 ml.

STORAGE

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

APPLICATIONS

EHZF (S-15) 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).

EHZF (S-15) is also recommended for detection of EHZF in additional species, including equine, canine, bovine, porcine and avian.

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.

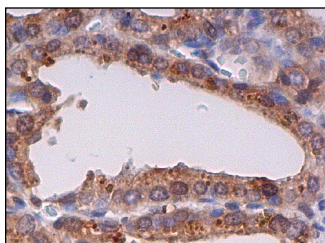
EHZF (S-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

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.

DATA



EHZF (S-15): sc-84808. Immunoperoxidase staining of formalin fixed, paraffin-embedded human seminal vesicle tissue showing nuclear and cytoplasmic staining 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.