

EZI (N-14): sc-162786

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. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. As a member of the Krueppel C₂H₂-type zinc-finger protein family, EZI, also known as ZNF467 (zinc finger protein 467) or Zfp467, is a 595 amino acid nuclear protein that contains twelve C₂H₂-type zinc fingers. EZI interacts with Stat3, thereby keeping it in the nucleus and enhancing Stat3 activity. Involved in transcriptional regulation, EZI transactivates several promoters including c-Fos and OSM. EZI is considered a novel cargo protein for Importin-7 and is able to perform a nucleocytoplasmic shuttling mechanism that is mediated by Importin-7-dependent nuclear localization and CRM1-independent nuclear export.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZNF467 (human) mapping to 7q36.1; Zfp467 (mouse) mapping to 6 B2.3.

SOURCE

EZI (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of EZI of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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-162786 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

EZI (N-14) is recommended for detection of EZI 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 EZI siRNA (h): sc-89557, EZI siRNA (m): sc-144988, EZI shRNA Plasmid (h): sc-89557-SH, EZI shRNA Plasmid (m): sc-144988-SH, EZI shRNA (h) Lentiviral Particles: sc-89557-V and EZI shRNA (m) Lentiviral Particles: sc-144988-V.

Molecular Weight of EZI: 65 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.