

ZBTB4 (I-15): sc-161265

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. ZBTB4 (zinc finger and BTB domain containing 4), also known as KAISO-L1 (KAISO-like zinc finger protein 1), is a 1,013 amino acid nuclear protein that is involved in transcriptional regulation. ZBTB4 contains one BTB (POZ) domain, six C₂H₂-type zinc fingers and is phosphorylated and downregulated by HIPK2. The gene encoding ZBTB4 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes.

CHROMOSOMAL LOCATION

Genetic locus: ZBTB4 (human) mapping to 17p13.1; Zbtb4 (mouse) mapping to 11 B3.

SOURCE

ZBTB4 (I-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ZBTB4 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.

Blocking peptide available for competition studies, sc-161265 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

ZBTB4 (I-15) is recommended for detection of ZBTB4 of mouse, rat and 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other ZBTB family members.

ZBTB4 (I-15) is also recommended for detection of ZBTB4 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for ZBTB4 siRNA (h): sc-93593, ZBTB4 siRNA (m): sc-155447, ZBTB4 shRNA Plasmid (h): sc-93593-SH, ZBTB4 shRNA Plasmid (m): sc-155447-SH, ZBTB4 shRNA (h) Lentiviral Particles: sc-93593-V and ZBTB4 shRNA (m) Lentiviral Particles: sc-155447-V.

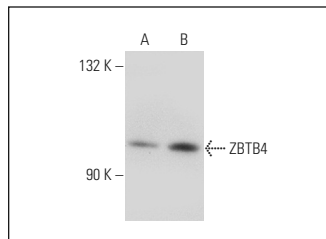
Molecular Weight of ZBTB4: 105 kDa.

Positive Controls: SK-N-MC nuclear extract: sc-2154, IMR-32 nuclear extract: sc-2148 or CCRF-CEM nuclear extract: sc-2146.

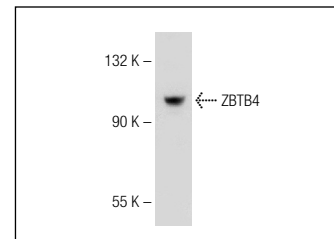
RECOMMENDED SECONDARY REAGENTS

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.

DATA



ZBTB4 (I-15): sc-161265. Western blot analysis of ZBTB4 expression in IMR-32 (A) and CCRF-CEM (B) nuclear extracts.



ZBTB4 (I-15): sc-161265. Western blot analysis of ZBTB4 expression in SK-N-MC nuclear extract.

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.


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Try **ZBTB4 (A-7): sc-514883**, our highly recommended monoclonal alternative to ZBTB4 (I-15).