

TOX4 (N-16): sc-132124

BACKGROUND

TOX high mobility group box family member 4 (TOX4), also known as epidermal Langerhans cell protein 1 (LCP1), is a 621 amino acid protein that localizes to the nucleus. Mapping to chromosome 14q11.2, TOX4 contains one high mobility group (HMG) box DNA-binding domain, corresponding to amino acids 223 to 291 of human TOX4. The HMG box domain is a region of about 80 amino acids with unusual DNA-binding preferences. HMG proteins bind DNA without sequence specificity. Furthermore, they bind to distorted or modified DNA and have the property to bend DNA. The presence of the HMG box DNA-binding domain suggests that TOX4 plays a role in transcriptional regulation.

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CHROMOSOMAL LOCATION

Genetic locus: TOX4 (human) mapping to 14q11.2; Tox4 (mouse) mapping to 14 C2.

SOURCE

TOX4 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of TOX4 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-132124 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-132124 X, 200 µg/0.1 ml.

APPLICATIONS

TOX4 (N-16) is recommended for detection of TOX4 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); non cross-reactive with family member TOX3.

TOX4 (N-16) is also recommended for detection of TOX4 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TOX4 siRNA (h): sc-92350, TOX4 siRNA (m): sc-154564, TOX4 shRNA Plasmid (h): sc-92350-SH, TOX4 shRNA Plasmid (m): sc-154564-SH, TOX4 shRNA (h) Lentiviral Particles: sc-92350-V and TOX4 shRNA (m) Lentiviral Particles: sc-154564-V.

TOX4 (N-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TOX4: 66 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.

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.