

TOX4 (I-17): sc-102139

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.

REFERENCES

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CHROMOSOMAL LOCATION

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

STORAGE

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

SOURCE

TOX4 (I-17) is a purified rabbit polyclonal antibody raised against TOX4 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

TOX4 (I-17) is recommended for detection of TOX4 of mouse, rat, human and dog 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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

Molecular Weight of TOX4: 66 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

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.