

TH-POK (B-21): sc-130894

BACKGROUND

TH-POK (T-helper-inducing POZ/Krüppel-like factor), also known as zinc finger protein 67 (ZFP67), zinc finger and BTB domain-containing protein 7B or Krüppel-related zinc finger protein cKrox, is a 539 amino acid protein that contains one BTB (POZ) domain and four C₂H₂-type zinc fingers. Localized to the nucleus, TH-POK functions primarily as a key regulator of lineage commitment of immature T cell precursors. Specifically, the presence of TH-POK directs positively selected thymocytes to the CD4 lineage, whereas its absence causes default development to the CD8 lineage. TH-POK also functions as a transcriptional repressor of various other genes, such as COL1A1, COL1A2 and Fibronectin.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ZBTB7B (human) mapping to 1q21.3; Zbtb7b (mouse) mapping to 3 F1.

STORAGE

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

SOURCE

TH-POK (B-21) is a purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of TH-POK of human origin.

PRODUCT

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

APPLICATIONS

TH-POK (B-21) is recommended for detection of TH-POK of mouse 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TH-POK siRNA (h): sc-76649, TH-POK siRNA (m): sc-76650, TH-POK shRNA Plasmid (h): sc-76649-SH, TH-POK shRNA Plasmid (m): sc-76650-SH, TH-POK shRNA (h) Lentiviral Particles: sc-76649-V and TH-POK shRNA (m) Lentiviral Particles: sc-76650-V.

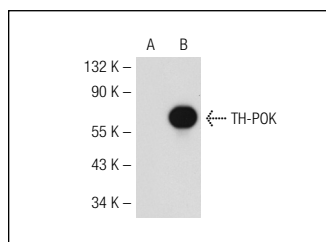
Molecular Weight of TH-POK: 58/80 kDa.

Positive Controls: TH-POK (m): 293T Lysate: sc-124028 or TH-POK (h6): 293T Lysate : sc-178046.

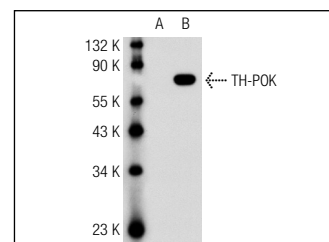
RECOMMENDED SECONDARY REAGENTS

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).

DATA



TH-POK (B-21): sc-130894. Western blot analysis of TH-POK expression in non-transfected: sc-117752 (A) and mouse TH-POK transfected: sc-124028 (B) 293T whole cell lysates.



TH-POK (B-21): sc-130894. Western blot analysis of TH-POK expression in non-transfected: sc-117752 (A) and human TH-POK transfected: sc-178046 (B) 293T whole cell lysates.

RESEARCH USE

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