

# HLX1 (H-130): sc-135014

## BACKGROUND

HLX1 (homeobox protein HB24) is a 488 amino acid protein encoded by the human gene HLX1. HLX1 belongs to the H2.0 homeobox family and contains one homeobox DNA-binding domain. HLX1 is considered a diverged human homeodomain-containing protein known to be expressed in hematopoietic progenitors and activated lymphocytes. HLX1 is a transcription factor required for TBX21/T-bet-dependent maturation of Th1 cells as well as maintenance of Th1-specific gene expression. It is also involved in embryogenesis and hematopoiesis. Overexpression of HLX1 will cause a marked increase in activated T cells/thymocytes and interleukin-2 receptor expression. Overexpression will also impair the normal development of CD4<sup>+</sup> T cells and will prevent the thymus from undergoing normal involution.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: HLX1 (human) mapping to 1q41; Hlx1 (mouse) mapping to 1 H5.

## SOURCE

HLX1 (H-130) is a rabbit polyclonal antibody raised against amino acids 151-280 mapping within an internal region of HLX1 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

HLX1 (H-130) is recommended for detection of HLX1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

HLX1 (H-130) is also recommended for detection of HLX1 in additional species, including canine and bovine.

Suitable for use as control antibody for HLX1 siRNA (h): sc-62472, HLX1 siRNA (m): sc-62473, HLX1 shRNA Plasmid (h): sc-62472-SH, HLX1 shRNA Plasmid (m): sc-62473-SH, HLX1 shRNA (h) Lentiviral Particles: sc-62472-V and HLX1 shRNA (m) Lentiviral Particles: sc-62473-V.

Molecular Weight of HLX1: 51 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, Hep G2 cell lysate: sc-2227 or Raji whole cell lysate: sc-364236.

## 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). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **HLX1 (1B9): sc-293328**, our highly recommended monoclonal alternative to HLX1 (H-130).