

# HLX1 (X-22): sc-133657

## 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 homeo-domain-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: HLX (human) mapping to 1q41.

## SOURCE

HLX1 (X-22) is a Protein A purified rabbit polyclonal antibody raised against synthetic HLX1 peptide 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

HLX1 (X-22) is recommended for detection of HLX1 of 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 HLX1 siRNA (h): sc-62472, HLX1 shRNA Plasmid (h): sc-62472-SH and HLX1 shRNA (h) Lentiviral Particles: sc-62472-V.

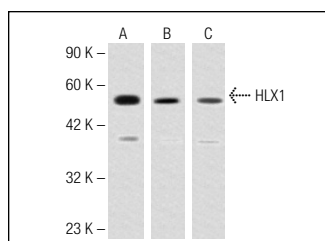
Molecular Weight of HLX1: 51 kDa.

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).

## DATA



HLX1 (X-22): sc-133657. Western blot analysis of HLX1 expression in Jurkat (A), Hep G2 (B) and Raji (C) whole cell lysates.

## 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.


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Try **HLX1 (1B9): sc-293328**, our highly recommended monoclonal alternative to HLX1 (X-22).