Hox 11 (Homeobox Protein 11, Tcl-3)

Catalog number

H7022-35

Supplier

United States Biological

HOX11, also called homeobox11 or Tcl-3 is located at the 10q24 T-Cell translocation breakpoint region. It encodes a homeobox-domain containing protein, HOX11, containing a glycine and proline-rich amino terminus. HOX11 is required for maintenance of the developing spleen and cell survival. The HOX11protein binds to a specific DNA sequence and localizes to the cell nucleus. It transactivates transcription of a reporter gene linked to a cis-regulatory element, acting as a positive transcription activator. The HOX11 gene is highly expressed in T-ALLs as a result of a t (7:10) (q35;q24) or t(10:14)(q24;qll) translocation. The homeobox gene is deregulated upon translocation into the T-cell receptor locus and activates a specific subset of tumor-associated target genes. HOX 11 gene translocation has been attributed to T-cell leukemia and lymphoid neoplasias.

Applications

Suitable for use in Western Blot. Other applications not tested.

Recommended Dilution

Optimal dilutions to be determined by the researcher.

Storage and Stability

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot Store at -20°C. Aliquots are stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Formulation

Supplied as a liquid in PBS, 0.2% gelatin, 0.05% sodium azide.

Purity

Purified by immunoaffinity chromatography.

Specificity

Species Crossreactivity: Mouse, Human, Rat

Product Type

Pab

Isotype

IgG

Grade

Affinity Purified

Applications

WB

Crossreactivity

Hu Mo Rt

Storage

-20°C