Data Sheet (Cat.No.TMAB-13431)

Anti-TCL3/HOX11 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Zebrafish,Sheep)
Molecular Weight:	Theoretical: 34 kDa. Actual: 34 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Embryo (Mouse) Lysate at 40 µg Primary: Anti-HOX11 (TMAB-13431) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 34 kD 2. Sample: JurkaT (Human) Cell Lysate at 30 µg Primary: Anti-TCL3/HOX11 (TMAB-13431) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 33 kD
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human TCL3/HOX11
Antigen Species:	Human
Gene ID:	3195
Uniprot ID:	P31314

Research Background

The Hox proteins play a role in patterns of embryonic development and cellular differentiation by regulating downstream target genes. The Hox11 gene, termed an orphan homeobox gene, as it is located outside of the four mammalian Hox clusters, is a DNA-binding nuclear transcription factor. The human Hox11 gene maps to chromosome 10q24 and has been implicated in the chromosomal translocation t(7;10)(q24;q11) that occurs in T-cell acute lymphoblastic leukemia (T-ALL). The t(7:10) translocation occurs between the Hox11 gene and the T-cell receptor (TCR) delta-chain gene and is a result of aberrant physiological recombinational events at the early stages of T-cell development. The Hox11 gene is normally expressed in the splanchnic anlage arising from the splanchnic mesoderm. Homozygous Hox11-deficient mice have no spleen, while all other splanchnic derivatives develop normally. Spleen development starts and proceeds normally in Hox11-deficient mice to a specific stage of

embryogenesis, when the spleen anlage becomes fully absorbed.

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