

TLX1 Antibody

Catalog # ASC11661

Product Information

Application	WB, E, IHC-P
Primary Accession	P31314
Other Accession	NP_005512 , 5031757
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	34365
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	TLX1 antibody can be used for detection of TLX1 by Western blot at 1 - 2 μ g/mL.

Additional Information

Gene ID	3195
Other Names	T-cell leukemia homeobox protein 1, Homeobox protein Hox-11, Proto-oncogene TCL-3, T-cell leukemia/lymphoma protein 3, TLX1, HOX11, TCL3
Target/Specificity	TLX1; Multiple isoforms of TLX1 exist due to alternative splicing events. TLX1 antibody is predicted to not cross-react with other TLX proteins.
Reconstitution & Storage	TLX1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	TLX1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TLX1
Synonyms	HOX11, TCL3
Function	Controls the genesis of the spleen. Binds to the DNA sequence 5'-GGCGGTAAGTGG-3'.
Cellular Location	Nucleus.

Background

TLX1 Antibody: The Hox proteins play a role in patterns of embryonic development and cellular differentiation by regulating downstream target genes. TLX1, also called homeobox11 (HOX11), as it is located outside of the four mammalian Hox clusters, is a DNA-binding nuclear transcription factor. TLX1 encodes a homeobox-domain containing protein and is containing a glycine and proline-rich amino terminus. TLX1 is required for maintenance of the developing spleen and cell survival. TLX1 is highly expressed in T-cell leukemia and lymphoid neoplasias as a result of translocation. TLX1-deficient mice have no spleen.

References

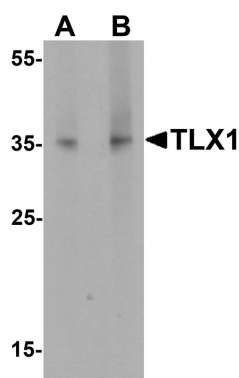
Dear TN, Sanchez-Garcia I, and Rabbitts TH, et al. The Hox11 gene encodes a DNA-binding nuclear transcription factor belonging to a distinct family of homeobox genes. *Proc. Natl. Acad. Sci. USA* 1993; 90:4431-5.

Dube ID, Kamel-Reid S, Yuan CC, et al. A novel human homeobox gene lies at the chromosome 10 breakpoint in lymphoid neoplasias with chromosomal translocation t (10;14). *Blood* 1991; 78:2996-3003.

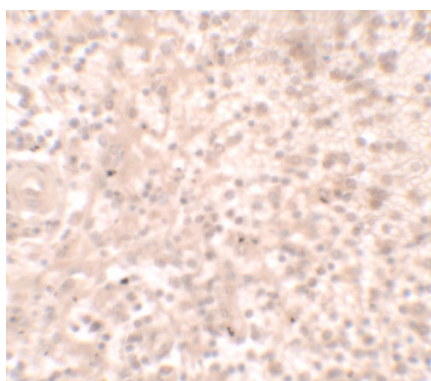
Hatano M, Roberts CW, Minden M, et al. Deregulation of a homeobox gene, Hox11, by the t (10;14) in T cell leukemia. *Science* 1991; 253:79-82.

Roberts CW, Shutter JR, Korsmeyer SJ et al. Hox11 controls the genesis of the spleen. *Nature* 1994; 368:747-9.

Images



Western blot analysis of TLX1 in mouse spleen tissue lysate with TLX1 antibody at (A) 1 µg/mL and (B) 2 µg/mL.



Immunohistochemistry of TLX1 in human spleen tissue with TLX1 antibody at 2.5 µg/ml.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.