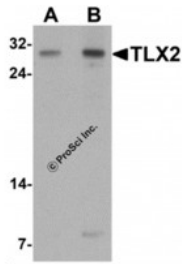
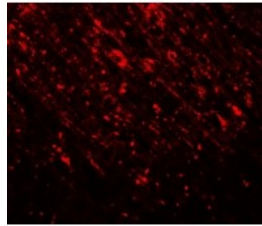


TLX2 Antibody

Cat. No.: 7373



Western blot analysis of TLX2 in rat brain tissue lysate with TLX2 antibody at (A) 0.5 and (B) 1 ug/mL.



Immunofluorescence of TLX2 in rat brain tissue with TLX2 antibody at 20 ug/ml.



Immunohistochemistry of TLX2 in rat brain tissue with TLX2 antibody at 2.5 ug/ml.

Ψ SPECIFICATIONS

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human, Mouse, Rat
IMMUNOGEN:	TLX2 antibody was raised against an 18 amino acid peptide near the amino terminus of human TLX2. The immunogen is located within amino acids 20 - 70 of TLX2.
TESTED APPLICATIONS:	ELISA, IF, IHC-P, WB
APPLICATIONS:	TLX2 antibody can be used for detection of TLX2 by Western blot at 0.5 - 1 ug/mL. Antibody validated: Western Blot in rat samples; Immunohistochemistry in rat samples and Immunofluorescence in rat samples. All other applications and species not yet tested.
SPECIFICITY:	TLX2 antibody is predicted to not cross-react with other TLX proteins.
POSITIVE CONTROL:	1) Cat. No. 1463 - Rat Brain Tissue Lysate
PREDICTED MOLECULAR WEIGHT:	Predicted: 31 kDa Observed: 30 kDa

Ψ PROPERTIES

PURIFICATION:	TLX2 Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	TLX2 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	TLX2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Ψ ADDITIONAL INFO

OFFICIAL SYMBOL:	TLX2
ALTERNATE NAMES:	TLX2 Antibody: NCX, HOX11L1, NCX, T-cell leukemia homeobox protein 2, Homeobox protein Hox-11L1
ACCESSION NO.:	NP_057254
PROTEIN GI NO.:	7706621
GENE ID:	3196
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Ψ BACKGROUND AND REFERENCES

BACKGROUND:	TLX2 Antibody: The Hox proteins play a role in patterns of embryonic development and cellular differentiation by regulating downstream target genes. TLX2, also known as homeobox11-like 1 (HOX11L1), is a DNA-binding nuclear transcription factor that appears to be crucial for the development of the peripheral nervous system. TLX2 is a downstream target of regulation by both PHOX2A and PHOX2B proteins during intestinal neuronal differentiation. In humans, loss-of-function of TLX2 may play a role in tumorigenesis of gastrointestinal stromal tumors.
REFERENCES:	1) 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. 2) Puliti A, Cinti R, Betsos N, et al. HOX11L1, a gene involved in peripheral nervous system development, maps to human chromosome 2p13.1>p12 and mouse chromosome 6C3-D1. Cytogenet. Cell Genet. 1999; 84:115-7. 3) Borghini S, Di Duca M, Santamaria G, et al. Transcriptional regulation of TLX2 and impaired intestinal innervation: possible role of the PHOX2A and PHOX2B genes. Eur. J. Human Genet. 2007; 15:848-55. 4) Borghini S, Bachetti T, Fava M, et al. The TLX2 homeobox gene is a transcriptional target of PHOX2B in neural crest derived cells. Biochem. J. 2006; 395:355-61.

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