

TLX2 Antibody

Catalog # ASC11662

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	O43763
Other Accession	NP_057254 , 7706621
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	30251
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	TLX2 antibody can be used for detection of TLX2 by Western blot at 0.5 - 1 μ g/mL.

Additional Information

Gene ID	3196
Other Names	T-cell leukemia homeobox protein 2, Homeobox protein Hox-11L1, Neural crest homeobox protein, TLX2, HOX11L1, NCX
Target/Specificity	TLX2; TLX2 antibody is predicted to not cross-react with other TLX proteins.
Reconstitution & Storage	TLX2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	TLX2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TLX2
Synonyms	HOX11L1, NCX
Function	Transcription activator that binds DNA elements with the consensus sequence 5'-CGGTAATTGG-3'. Binds DNA via its homeobox. Required for normal cell death of enteric neurons in the gastrointestinal tract. Required for normal development of the enteric nervous system, and for proper development of normal motility of the gastrointestinal tract (By similarity).
Cellular Location	Nucleus.

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

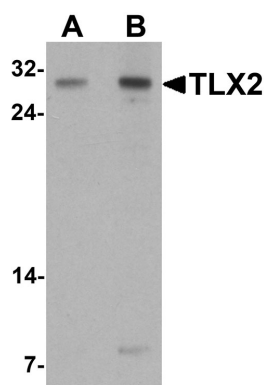
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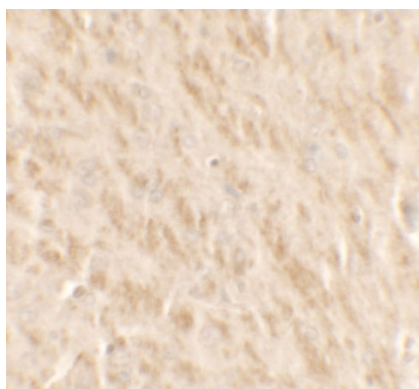
Borghini S, Di Duca M, Santamaria G, et al. Transcriptional regulation of TLX2 and impaired intestinal innervation: possible role of the PHOX2A and PHOX2B genes. *Eur. J. Human Genet.* 2007; 15:848-55.

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.

Images

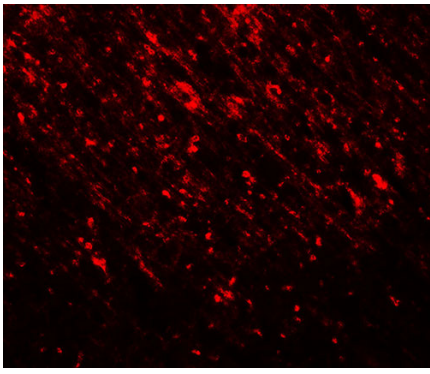


Western blot analysis of TLX2 in rat brain tissue lysate with TLX2 antibody at (A) 0.5 and (B) 1 μ g/mL.



Immunohistochemistry of TLX2 in rat brain tissue with TLX2 antibody at 2.5 μ g/mL.

Immunofluorescence of TLX2 in rat brain tissue with TLX2 antibody at 20 μ g/mL.



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