

TLX2 Antibody

Catalog # ASC11662

Specification

TLX2 Antibody - Product Information

Application WB, IHC, IF Primary Accession O43763

Other Accession
Reactivity
Human, Mouse, Rat
Rabbit

Clonality Polyclonal Isotype IgG

Calculated MW Predicted: 31 kDa

Observed: 30 kDa KDa

Application Notes

TLX2 antibody can be used for detection of
TLX2 by Western blot at 0.5 - 1 µg/mL.

TLX2 Antibody - Additional Information

Gene ID **3196**

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.

TLX2 Antibody - 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.

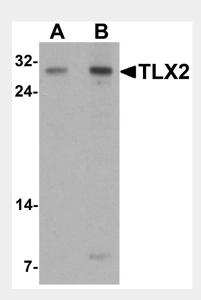
TLX2 Antibody - Protocols



Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TLX2 Antibody - Images

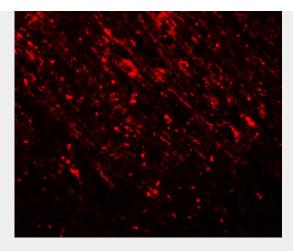


Western blot analysis of TLX2 in rat brain tissue lysate with TLX2 antibody at (A) 0.5 and (B) 1 $\mu g/mL$.



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





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

TLX2 Antibody - 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.

TLX2 Antibody - 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.

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.

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.