



Rabbit Anti-TLX2 antibody

SL12067R

Product Name:	TLX2
Chinese Name:	Tlymphocyte白血病同源蛋白2抗体
Alias:	Enx; homeo box 11 like 1; Homeobox protein Hox 11L1; Homeobox TLX 2; HOX11L1; NCX; Neural crest homeobox protein; PMUR10F; T cell leukemia homeobox protein 2; T cell leukemia, homeobox 2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	30kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TLX2:101-200/284
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	T-cell leukemia homeobox protein 2 (TLX2), also known as homeobox protein Hox-11L1 (HOX11L1), neural crest homeobox protein (NCX) or ENX, is a 284 amino acid member of the TLX homeobox family. The mouse homolog, Tlx2, has been detected in dorsal-root ganglia, cranial and entric-nerve gangla, parasympathetic ganglia and adrenal glands in mouse embryos and in the adrenal glands, intestine and heart of adult

mice. The expression pattern of Tlx2, which is restricted to tissues derived from neural crest cells, suggests that it may play a role in the proliferation or differentiation of the enteric peripheral nervous system. TLX2, which is localized to the nucleus, is highly homologous to mouse Tlx2, and shares several critical domains, including an enhancer element in the promoter that is crucial for tissue-specific expression. Mutations in the gene encoding mouse Tlx2 lead to congenital anomalies closely resembling neuronal intestinal dysplasia in humans. Thus, TLX2 is thought to play a role in this disease, which is a rare condition characterized by hyperplasia of submucosal plexus with giant submucosal ganglia and increased acetylcholinesterase activity in nerve fiber around submucosal blood vessels.

Function:

TLX2 contains 1 homeobox DNA-binding domain and the function remains unknown. In the mouse, this gene is expressed from embryonic day 9.5 through day 13.5 and is detectable in the dorsal root ganglia, cranial and enteric nerve ganglia and adrenal glands. In adult animals its expression is limited to the adrenal gland and the intestine. TLX2 may be involved in the proliferation and/or differentiation of enteric peripheral nervous system.

Subcellular Location:

Nuclear

Similarity:

Contains 1 homeobox DNA-binding domain.

SWISS:

O43763

Gene ID:

3196

Database links:

[Entrez Gene: 3196](#)Human

[Entrez Gene: 21909](#)Mouse

[Entrez Gene: 680117](#)Rat

[Omim: 604240](#)Human

[SwissProt: O43763](#)Human

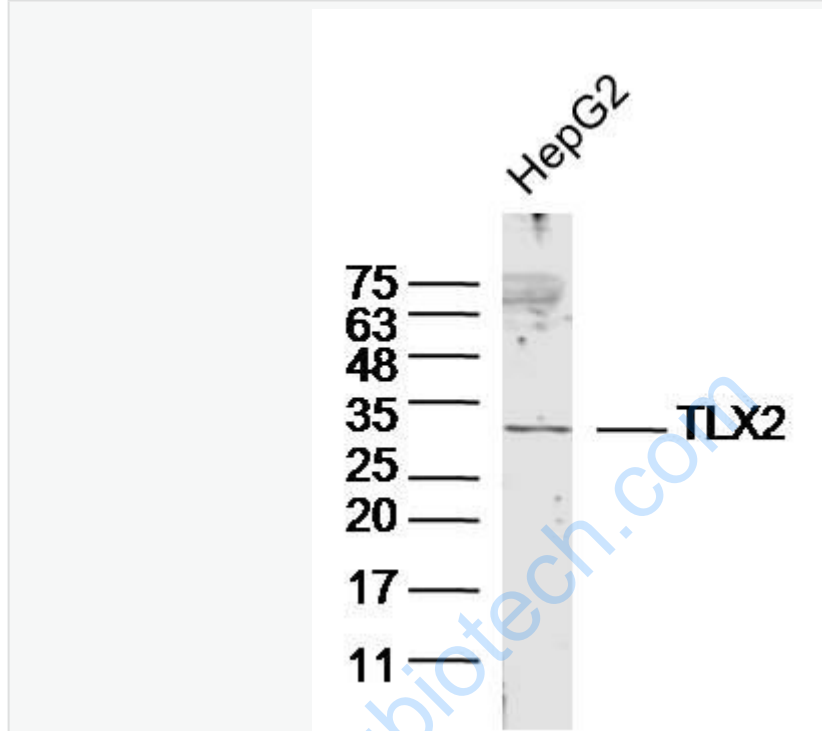
[SwissProt: Q61663](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Picture:



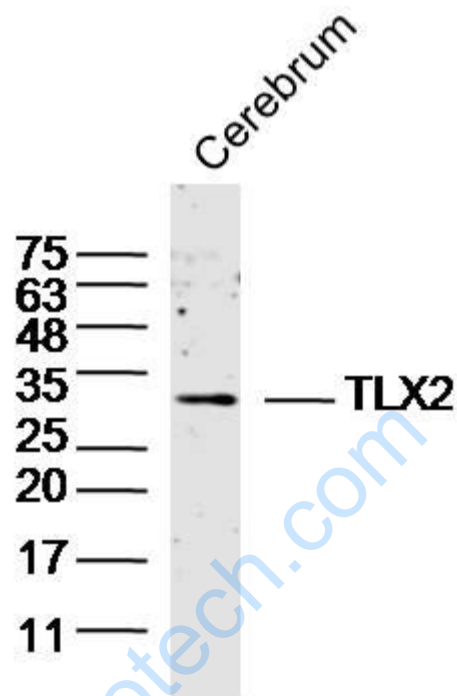
Sample: HepG2 (Human) Cell Lysate at 40 ug

Primary: Anti-TLX2 (SL12067R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 30kD

Observed band size: 30kD



Sample: Cerebrum (Rat) Lysate at 40 ug

Primary: Anti-TLX2(SL12067R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 30kD

Observed band size: 30kD