

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.
Research Area	Tumour Neurobiology Cell differentiation lymphocyte t-lymphocyte
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Rat(predicted:Mouse,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Applications	WB=1:500-2000 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	30kDa
Cellular localization	The nucleus
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human TLX2: 101-200/284
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
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 enteric-nerve ganglia, 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

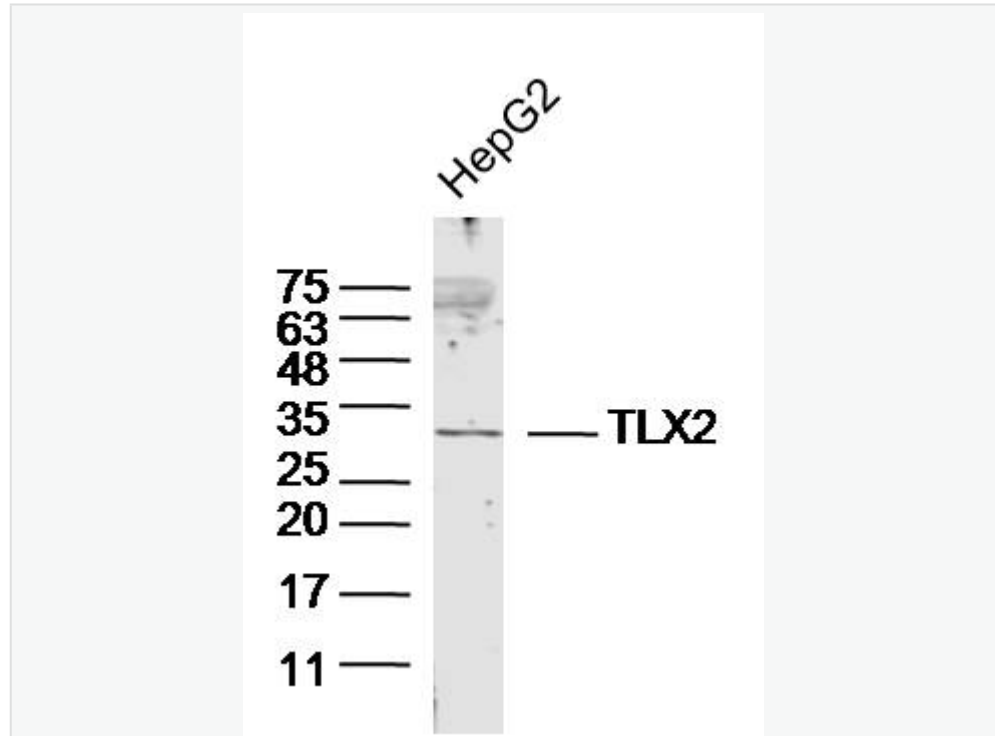
[Entrez Gene: 680117](#) Rat

[Oimim: 604240](#) Human

[SwissProt: O43763](#) Human

[SwissProt: Q61663](#) Mouse

Product Picture



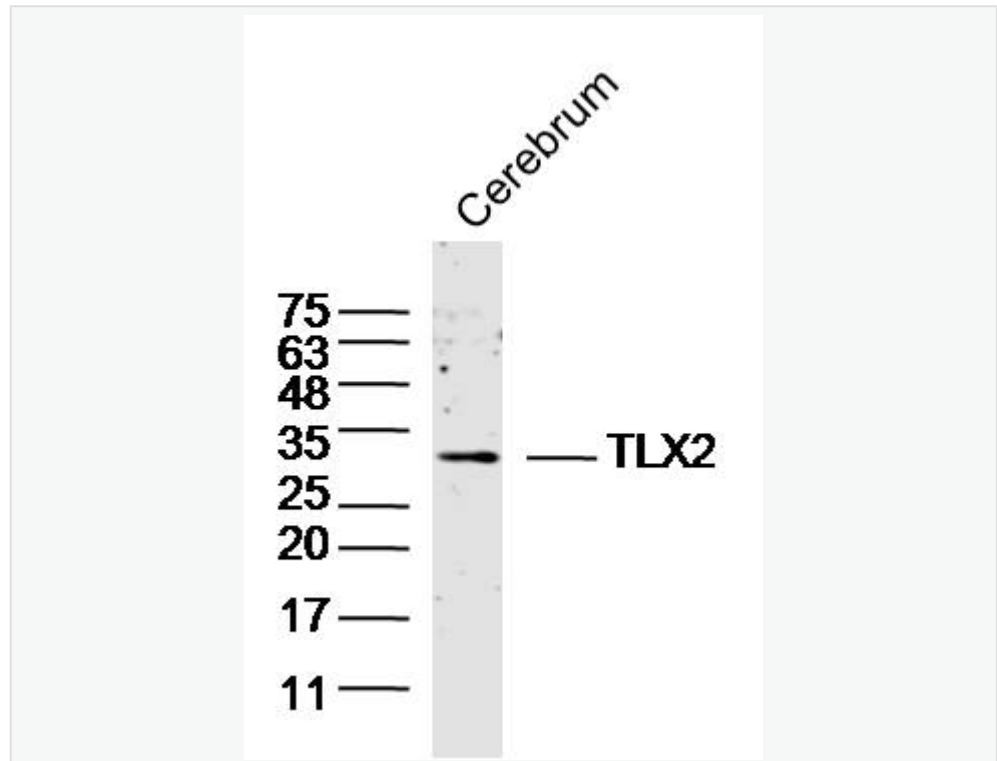
Sample:HepG2 (Human)CellLysate at 40 ug

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

Secondary: IRDye800CW Goat Anti-RabbitIgG 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-RabbitIgG at 1/20000 dilution

Predicted band size: 30kD

Observed band size: 30kD