



## Rabbit Anti-TBX18 antibody

SL4748R

<b>Product Name:</b>	TBX18
<b>Chinese Name:</b>	转录因子Tbx18抗体
<b>Alias:</b>	T box 18; T box protein 18; T box transcription factor TBX18; T-box protein 18; T-box transcription factor TBX18; TBX18; TBX18_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	65kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human TBX18:201-300/607
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	T-box transcription factors are a group of phylogenetically conserved genes that contain a uniquely defining DNA-binding domain, the T-box domain. These genes are believed to be involved in the regulation of development processes, for example the development of limbs, and it is known that haploinsufficiency of multiple T-box proteins results in severe human congenital malformation syndromes, involving craniofacial, cardiovascular, and skeletal structures. TBX 18 has been reported to be involved in

numerous development processes and to act as an antiapoptotic factor.

**Function:**

Probable transcriptional regulator involved in developmental processes.

**Subunit:**

Homodimer. Can form a heterodimer with TBX15. Interacts with GATA4 AND NKX2-5. Interacts with PAX3 (By similarity). Interacts (via engrailed homology 1 repressor motif) with TLE3; this interaction represses TBX18 transcriptional activity (By similarity) (PubMed:26235987). Interacts with SIX1 (PubMed:26235987).

**Subcellular Location:**

Nucleus.

**DISEASE:**

Congenital anomalies of kidney and urinary tract 2 (CAKUT2). The disease is caused by mutations affecting the gene represented in this entry. A disorder encompassing a broad spectrum of renal and urinary tract malformations that include renal agenesis, kidney hypodysplasia, multicystic kidney dysplasia, duplex collecting system, posterior urethral valves and ureter abnormalities. Congenital anomalies of kidney and urinary tract are the commonest cause of chronic kidney disease in children.

**Similarity:**

Contains 1 T-box DNA-binding domain.

**SWISS:**

O95935

**Gene ID:**

9096

**Database links:**

[Entrez Gene: 9096](#)Human

[Entrez Gene: 76365](#)Mouse

[Entrez Gene: 315870](#)Rat

[Omim: 604613](#)Human

[SwissProt: O95935](#)Human

[SwissProt: Q9EPZ6](#)Mouse

[Unigene: 251830](#)Human

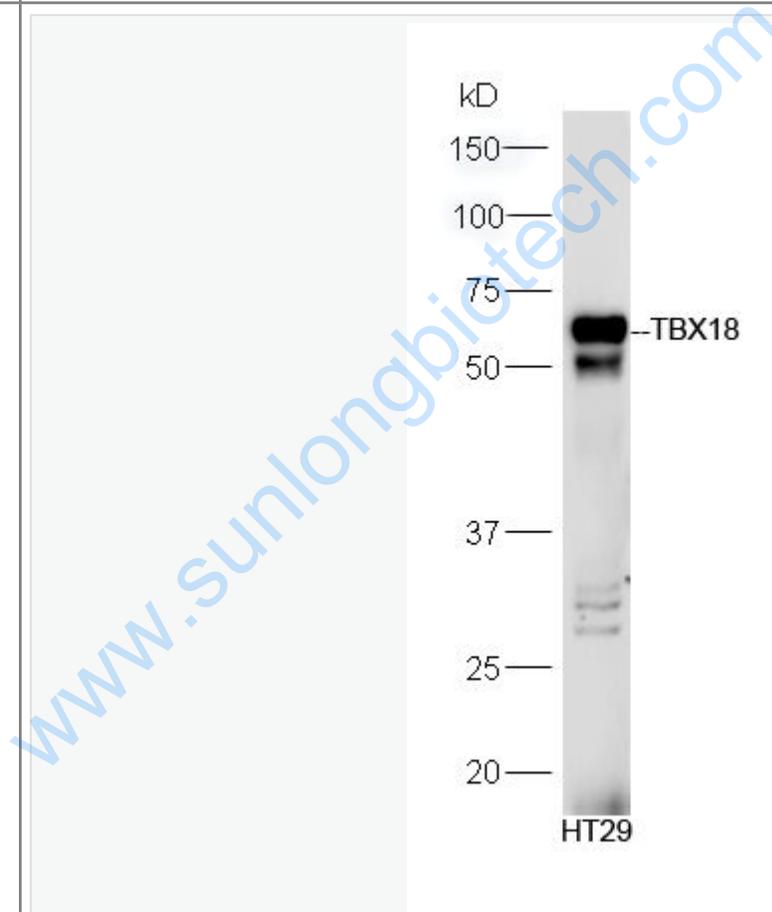
[Unigene: 158789](#)Mouse

[Unigene: 161921](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**



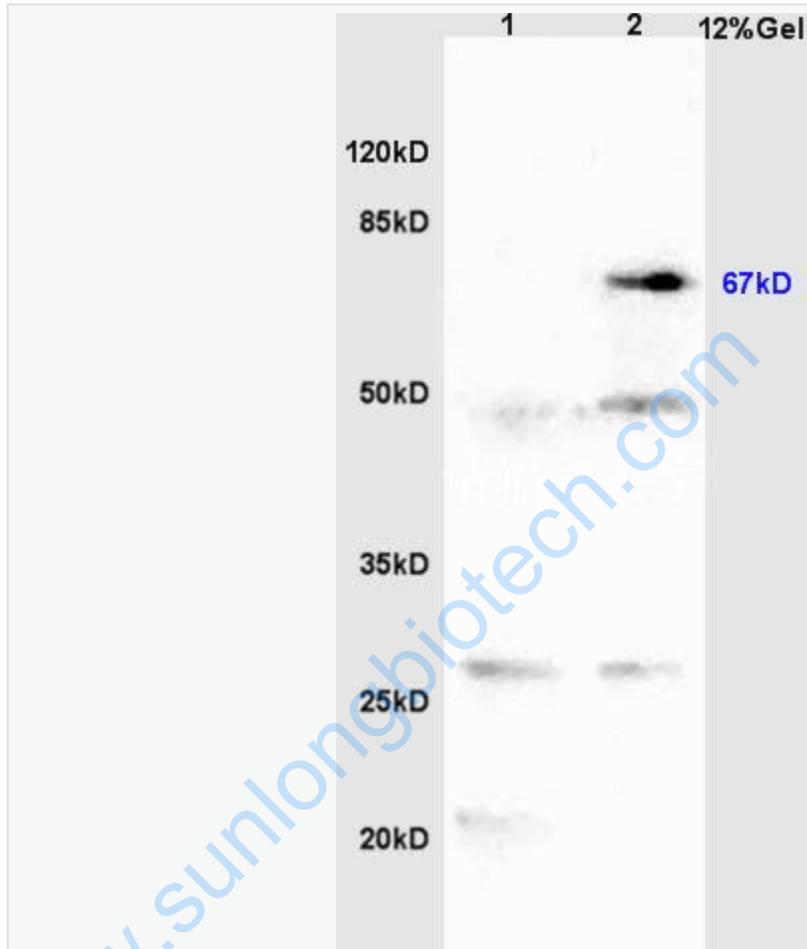
Sample: HT29 Cell lysate at 30ug;

Primary: Anti-TBX18 (SL4748R) at 1:300 dilution;

Secondary: HRP conjugated Goat-Anti-rabbit IgG(SL4748R) at 1: 5000 dilution;

Predicted band size: 65 kD

Observed band size: 65 kD



Sample:

line1 : Mouse embryo lysate at 45ug;

line2 : Mouse brain lysate at 45ug;

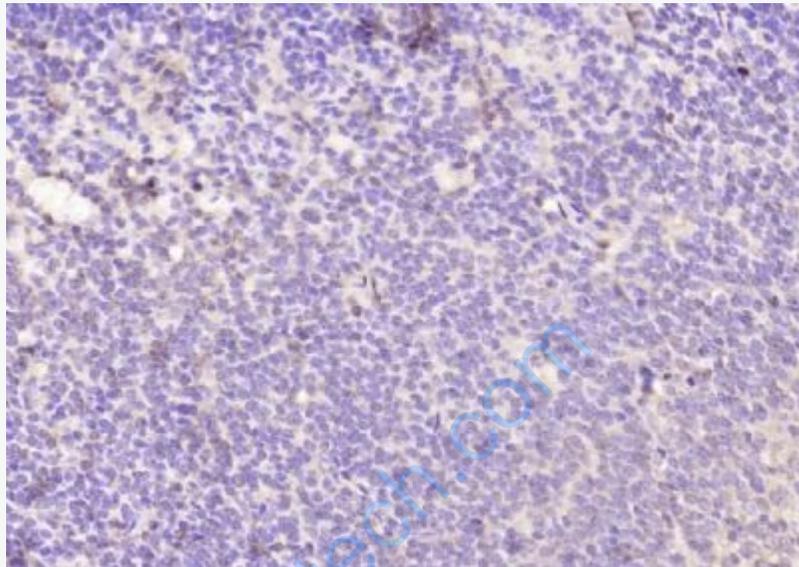
Primary: Anti-TBX18(SL4748R) at 1:200 dilution;

Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL4748R) at 1: 3000 dilution;

Predicted band size : 65kD

Observed band size : 67kD

We are unsure as to the identity of these extra bands



Paraformaldehyde-fixed, paraffin embedded (mouse embryo); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TBX18) Polyclonal Antibody, Unconjugated (SL4748R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.