



## Rabbit Anti-TBX6 antibody

SL12281R

<b>Product Name:</b>	TBX6
<b>Chinese Name:</b>	转录因子TBX6抗体
<b>Alias:</b>	DFNB 67; DFNB67; T box 6; T box protein 6; T box transcription factor TBX 6; T box transcription factor TBX6; T-box protein 6; T-box transcription factor TBX6; Tbox 6; TBX 6; tbx6; TBX6_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,
<b>Applications:</b>	ELISA=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.
<b>Molecular weight:</b>	47kDa
<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 TBX6:241-330/436
<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>	Members of the T-box (Tbx) gene family share a conserved domain that codes for the T-box, a sequence involved in DNA-binding and protein dimerization. The Tbx gene family is largely conserved throughout metazoan evolution, and is implicated in a variety of developmental processes ranging from the formation of germ layers to the organizational patterning of the central nervous system. In the mouse, Tbx6 is involved

in both the specification and patterning of the somites along the entire length of the embryo. Specifically, Tbx6 is expressed in the primitive streak, tail bud, and presomitic mesoderm and is essential for the specification of posterior paraxial mesoderm. In the absence of Tbx6, posterior somites are replaced by ectopic neural tubes.

**Function:**

Probable transcriptional regulator involved in developmental processes. Could be required for specification of paraxial mesoderm structures during gastrulation.

**Subunit:**

Forms a dimeric complex with DNA (in vitro).

**Subcellular Location:**

Nucleus.

**Tissue Specificity:**

Expressed in fetal tail bud, posterior spinal tissue, intervertebral disk and testis. Also expressed in adult testis, kidney, lung, muscle and thymus.

**Similarity:**

Contains 1 T-box DNA-binding domain.

**SWISS:**

O95947

**Gene ID:**

6911

**Database links:**

[Entrez Gene: 6911](#)Human

[Entrez Gene: 21389](#)Mouse

[Omim: 602427](#)Human

[SwissProt: O95947](#)Human

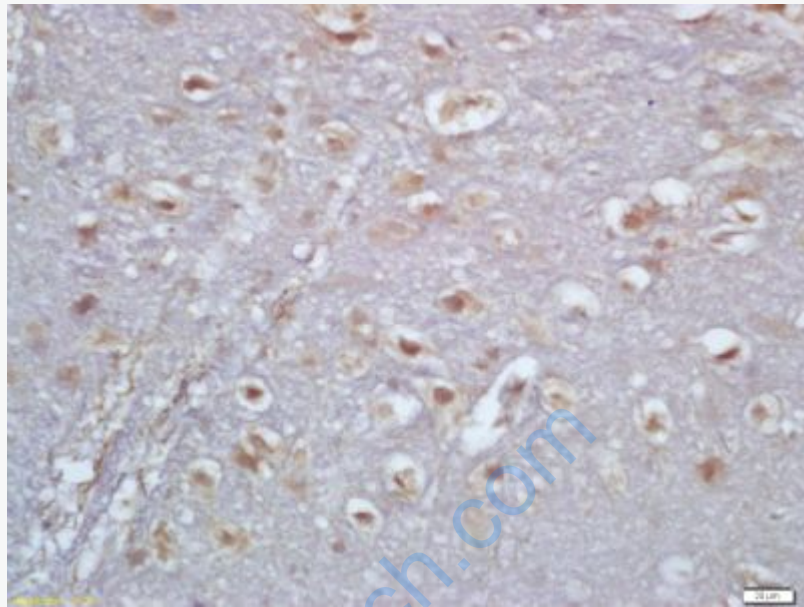
[SwissProt: P70327](#)Mouse

[Unigene: 198301](#)Human

[Unigene: 727](#)Mouse

**Important Note:**

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



**Picture:**

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-TBX6 Polyclonal Antibody, Unconjugated(SL12281R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining