



## Rabbit Anti-TCF12 antibody

SL11237R

<b>Product Name:</b>	TCF12
<b>Chinese Name:</b>	转录因子12抗体
<b>Alias:</b>	bHLHb20; Class B basic helix-loop-helix protein 20; DNA binding protein HTF4; DNA-binding protein HTF4; E box binding protein; E-box-binding protein; HEB; HTF4; HTF4_HUMAN; TCF-12; Tcf12; Transcription factor 12; Transcription factor HTF-4; Transcription factor HTF4.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Horse,Rabbit,Zebrafish,Sheep,
<b>Applications:</b>	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.
<b>Molecular weight:</b>	73kDa
<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 TCF12:51-150/682
<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>	Differentiation of myogenic cells is regulated by multiple positively and negatively acting factors. One well characterized family of helix-loop-helix (HLH) proteins known to play an important role in the regulation of muscle cell development includes Myo D, myogenin, Myf-5 and Myf-6 (also designated MRF-4 or herculin). Myo D transcription

factors form heterodimers with products of a more widely expressed family of bHLH genes, the E family, which consists of at least three distinct genes: E2A, IF2 and HEB. Myo D-E heterodimers bind avidly to consensus (CANNTG) E box target sites that are functionally important elements in the upstream regulatory sequences of many muscle-specific terminal differentiation genes. Both homo- and hetero-oligomers of these proteins are able to distinguish very closely related E box proteins and are believed to play important roles in lineage specific gene expression.

**Function:**

Binds specifically to oligomers of E-box motifs. May play important roles during development of the nervous system as well as in other organ systems.

**Subunit:**

Contains 1 basic helix-loop-helix (bHLH) domain.

**Subcellular Location:**

Nucleus.

**Tissue Specificity:**

Expressed in several tissues and cell types including skeletal muscle, thymus, and a B-cell line.

**Similarity:**

Contains 1 bHLH (basic helix-loop-helix) domain.

**SWISS:**

Q99081

**Gene ID:**

6938

**Database links:**

[Entrez Gene: 6938](#) Human

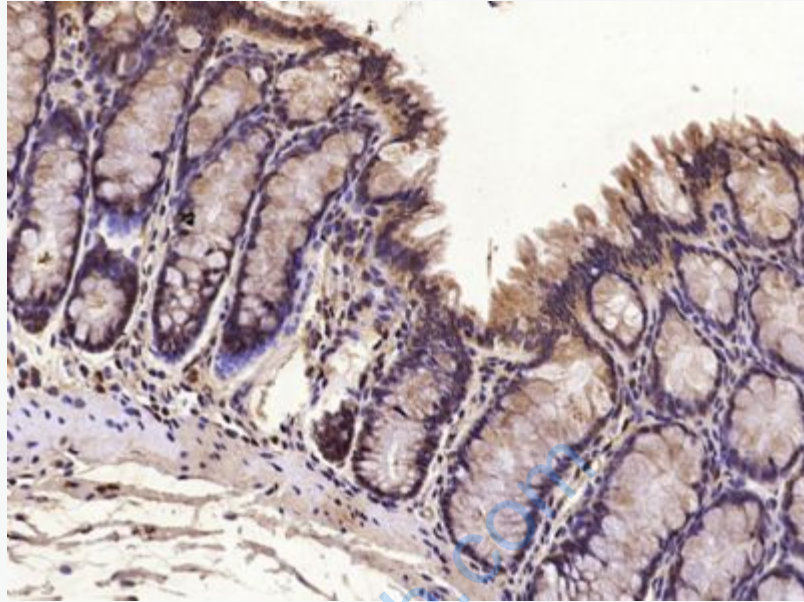
[Omim: 600480](#) Human

[SwissProt: Q99081](#) Human

[Unigene: 511504](#) Human

**Important Note:**

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



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (Rat colon); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (TCF12) Polyclonal Antibody, Unconjugated (SL11237R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP) and DAB staining.