SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-TBX18/Cy5 Conjugated antibody

SL4748R-Cy5

Product Name	Anti-TBX18/Cy5
Chinese Name	Cy5 标记的转录因子 Tbx18 抗体
Alias	T box 18; T box protein 18; T box transcription factor TBX18; T-box protein 18; T-box transcription factor TBX18; TBX18; TBX18_HUMAN.
Research Area	Cell biology immunology Chromatin and nuclear signals transcriptional regulatory factor Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse(predicted:Rat,Dog,Pig,Cow,Horse,Rabbit)
Applications	IF=1:100-500not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	65kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human TBX18
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** 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.

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.