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TBX18 Rabbit pAb

Catalog # AP98467

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O95935
Other Accession	O95935
Reactivity	Human, Mouse
Predicted	Rat, Pig, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64753
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TBX18
Epitope Specificity	201-300/607
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 T-box DNA-binding domain.
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).
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	9096
Other Names	CAKUT2; PUJO; 2810012F10Rik; 2810404D13Rik; TBX18_HUMAN; TBX18; T-box

	protein 18; TBX18_MOUSE; T-box transcription factor 18; T-box 18
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	TBX18
Function	Acts as a transcriptional repressor involved in developmental processes of a variety of tissues and organs, including the heart and coronary vessels, the ureter and the vertebral column. Required for embryonic development of the sino atrial node (SAN) head area.
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00201, ECO:0000269|PubMed:26235987}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.