

Datasheet for ABIN7599494
anti-T-Box 18 antibody (AA 1-607)



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Overview

Quantity:	100 µg
Target:	T-Box 18 (TBX18)
Binding Specificity:	AA 1-607
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This T-Box 18 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-TBX18 Antibody Picoband®
Immunogen:	E.coli-derived human TBX18 recombinant protein (Position: M1-V607).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-TBX18 Antibody Picoband® (ABIN7599494). Tested in ELISA, Flow Cytometry, IF, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	T-Box 18 (TBX18)
Alternative Name:	TBX18 (TBX18 Products)
Background:	Synonyms: Aspartate--tRNA ligase, mitochondrial, Aspartyl-tRNA synthetase, AspRS, DARS2 Tissue Specificity: Detected in brain. Detected at very much lower levels in heart, lung, placenta and skeletal muscle. Highly expressed in cerebellum, but also found in frontal cortex, hippocampus and basal ganglia. Background: This genes codes for a member of an evolutionarily conserved family of transcription factors that plays a crucial role in embryonic development. The family is characterized by the presence of the DNA-binding T-box domain and is divided into five sub-families based on sequence conservation in this domain. The encoded protein belongs to the vertebrate specific Tbx1 sub-family. The protein acts as a transcriptional repressor by antagonizing transcriptional activators in the T-box family. The protein forms homo- or heterodimers with other transcription factors of the T-box family or other transcription factors.
Molecular Weight:	70 kDa
Gene ID:	9096
UniProt:	O95935
Pathways:	Sensory Perception of Sound

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human, Mouse, Rat Immunohistochemistry, 2-5 µg/mL, Human Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Airik, R., Bussen, M., Singh, M. K., Petry, M., Kispert, A. Tbx18 regulates the development of the ureteral mesenchyme. J. Clin. Invest. 116: 663-674, 2006. 2. Bussen, M, Petry, M., Schuster-Gossler, K., Leitges, M., Gossler, A., Kispert, A. The T-box transcription factor Tbx18 maintains the separation of anterior and posterior somite compartments. Genes Dev. 18: 1209-1221, 2004. 3. Cai, C.-L., Martin, J. C., Sun, Y., Cui, L., Wang, L., Ouyang, K., Yang, L., Bu, L., Liang, X., Zhang, X., Stallcup, W. B., Denton, C. P., McCulloch, A., Chen, J., Evans, S. M. A myocardial lineage derives from Tbx18 epicardial cells. Nature 454: 104-108, 2008.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.