Datasheet for ABIN563098

anti-T-Box 5 antibody (AA 402-518)

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Overview

Quantity:	100 µg
Target:	T-Box 5 (TBX5)
Binding Specificity:	AA 402-518
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This T-Box 5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, RNA Interference (RNAi)

Product Details

Purpose:	Mouse monoclonal antibody raised against a partial recombinant TBX5.
Immunogen:	TBX5 (AAH27942, 402 a.a. ~ 518 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence:	PSMPSYSSCT VTTVQPMDRL PYQHFSAHFT SGPLVPRLAG MANHGSPQLG EGMFQHQTSV AHQPVVRQCG PQTGLQSPGT LQPPEFLYSH GVPRTLSPHQ YHSVHGVGMV PEWSDNS
Clone:	1G10
Isotype:	IgG1
Cross-Reactivity:	Human
Characteristics:	Antibody Reactive Against Recombinant Protein.

Target Details

Target:	T-Box 5 (TBX5)
Alternative Name:	TBX5 (TBX5 Products)
Background:	Full Gene Name: T-box 5 Synonyms: HOS
Gene ID:	6910

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Buffer:	In 1x PBS, pH 7.4
Handling Advice:	Aliquot to avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

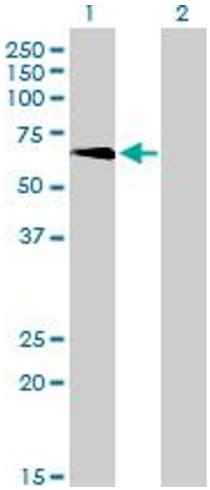
Publications

Product cited in:

Baban, Pitto, Pulignani, Cresci, Mariani, Gambacciani, Digilio, Pongiglione, Albanese: "Holt-Oram syndrome with intermediate atrioventricular canal defect, and aortic coarctation: functional characterization of a de novo TBX5 mutation." in: **American journal of medical genetics. Part A** , Vol. 164A, Issue 6, pp. 1419-24, (2014) (PubMed).

Hartung, Schwanke, Haase, David, Franz, Martin, Zweigerdt: "Directing cardiomyogenic differentiation of human pluripotent stem cells by plasmid-based transient overexpression of cardiac transcription factors." in: **Stem cells and development**, Vol. 22, Issue 7, pp. 1112-25, (2013) (PubMed).

Ghosh, Song, Packham, Buxton, Robinson, Ronksley, Self, Bonser, Brook: "Physical interaction between TBX5 and MEF2C is required for early heart development." in: **Molecular and cellular biology**, Vol. 29, Issue 8, pp. 2205-18, (2009) (PubMed).

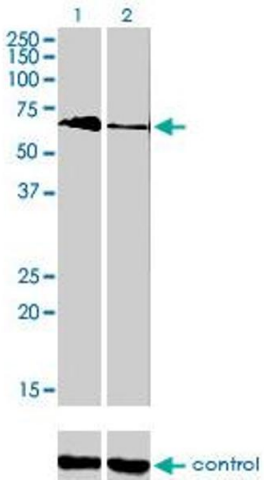


Western Blotting

Image 1. Western Blot analysis of TBX5 expression in transfected 293T cell line by TBX5 monoclonal antibody (M01), clone 1G10.

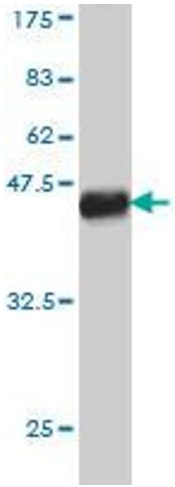
Lane 1: TBX5 transfected lysate(57.7 KDa).

Lane 2: Non-transfected lysate.



Western Blotting

Image 2. Western blot analysis of TBX5 over-expressed 293 cell line, cotransfected with TBX5 Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with TBX5 monoclonal antibody (M01), clone 1G10. GAPDH (36.1 kDa) used as specificity and loading control.



Western Blotting

Image 3. Western Blot detection against Immunogen (38.61 KDa) .