

Product datasheet

Anti-TBX1 antibody **ab18530**

★★★★★ [4 Abreviews](#) [22 References](#) [1 Image](#)

Overview

Product name	Anti-TBX1 antibody
Description	Rabbit polyclonal to TBX1
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human TBX1. Read Abcam's proprietary immunogen policy (Peptide available as ab19624 .)
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.40</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: PBS</p> <p>Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab18530 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 43 kDa).

Target

Function

Probable transcriptional regulator involved in developmental processes. Is required for normal development of the pharyngeal arch arteries.

Involvement in disease

Haploinsufficiency of the TBX1 gene is responsible for most of the physical malformations present in DiGeorge syndrome (DGS) and velocardiofacial syndrome (VCFS) [MIM:188400, 192430]. DGS is characterized by the association of several malformations: hypoplastic thymus and parathyroid glands, congenital conotruncal cardiopathy, and a subtle but characteristic facial dysmorphism. VCFS is marked by the association of congenital conotruncal heart defects, cleft palate or velar insufficiency, facial dysmorphism and learning difficulties. It is now accepted that these two syndromes represent two forms of clinical expression of the same entity manifesting at different stages of life.

Defects in TBX1 are a cause of DiGeorge syndrome (DGS) [MIM:188400].

Defects in TBX1 are a cause of velocardiofacial syndrome (VCFS) [MIM:192430].

Defects in TBX1 are a cause of conotruncal heart malformations (CTHM) [MIM:217095]. CTMH consist of cardiac outflow tract defects, such as tetralogy of Fallot, pulmonary atresia, double-outlet right ventricle, truncus arteriosus communis, and aortic arch anomalies.

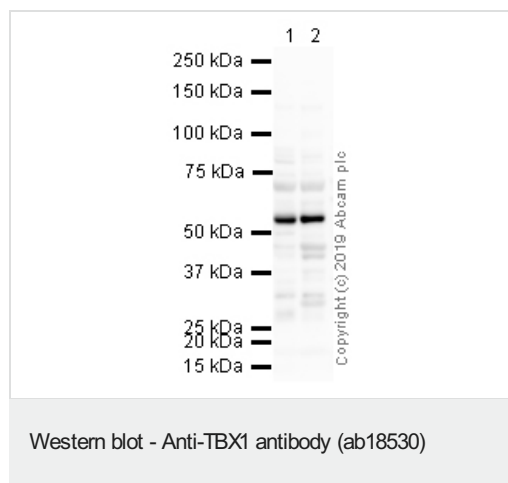
Sequence similarities

Contains 1 T-box DNA-binding domain.

Cellular localization

Nucleus.

Images



All lanes : Anti-TBX1 antibody (ab18530) at 1 µg/ml

Lane 1 : Human heart tissue lysate (total protein)

Lane 2 : Human skeletal muscle tissue lysate (total protein)

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/50000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 43 kDa

Observed band size: 51 kDa

Exposure time: 8 minutes

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab18530 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution **ab133406**.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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