

Product datasheet

Anti-TBX1 antibody [EPR3289(2)] ab109313

Recombinant **RabMAb**

[9 References](#) [4 Images](#)

Overview

Product name	Anti-TBX1 antibody [EPR3289(2)]
Description	Rabbit monoclonal [EPR3289(2)] to TBX1
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Jurkat, NCCIT, PC-12, F9, C6, Neuro-2a, HEK-293, HeLa cell lysates
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3289(2)
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab109313 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		1/1000 - 1/10000. Detects a band of approximately 43 kDa (predicted molecular weight: 43 kDa).

Application notes

Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

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 dysmorphology 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]. CTHM consist of cardiac outflow tract defects, such as tetralogy of Fallot, pulmonary atresia, double-outlet right ventricle, truncus arteriosus communis, and aortic arch anomalies.

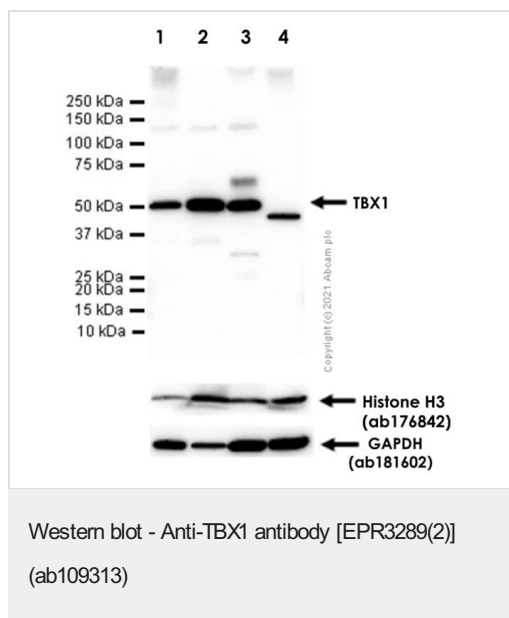
Sequence similarities

Contains 1 T-box DNA-binding domain.

Cellular localization

Nucleus.

Images



All lanes : Anti-TBX1 antibody [EPR3289(2)] (ab109313) at 1/1000 dilution

Lane 1 : HEK-293 (Human embryonic kidney epithelial cell) control cell lysate

Lane 2 : HEK-293 (Human embryonic kidney epithelial cell) nuclear cell lysate

Lane 3 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 4 : Human liver lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/20000 dilution

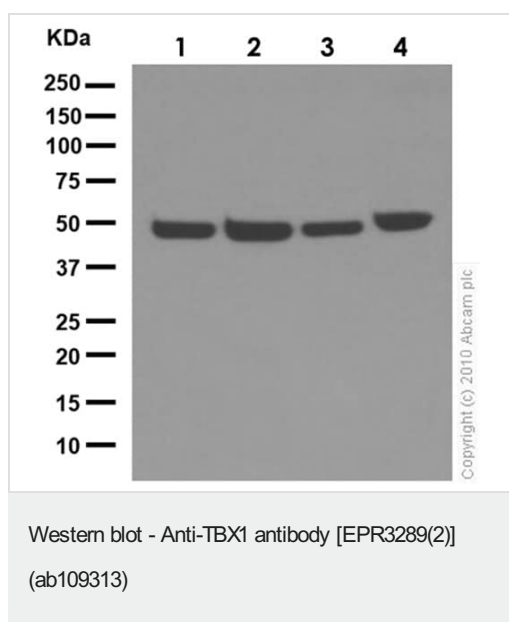
Predicted band size: 43 kDa

Observed band size: 53 kDa

Exposure time: 10 seconds

Blocking buffer: 5% NFDM/TBST.

There is a strong non-specific band in human liver. Human liver is negative control for TBX1 which is consistent with PMID: 28920943.



All lanes : Anti-TBX1 antibody [EPR3289(2)] (ab109313) at 1/2000 dilution

Lane 1 : Jurkat (Human T cell leukemia T lymphocyte) whole cell lysate

Lane 2 : NCCIT (Human pluripotent embryonic carcinoma epithelial cell) whole cell lysate

Lane 3 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lane 4 : F9 (Mouse embryonal carcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000

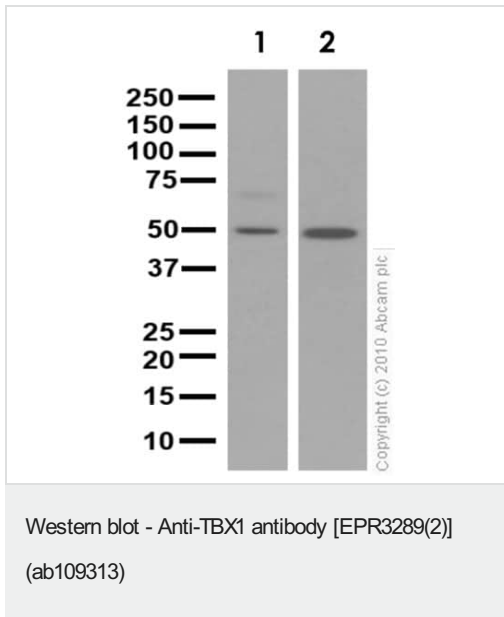
dilution

Predicted band size: 43 kDa

Observed band size: 53 kDa

Exposure time: 30 seconds

Blocking buffer: 5% NFDM/TBST.



Lane 1 : Anti-TBX1 antibody [EPR3289(2)] (ab109313) at 1/2000 dilution

Lane 2 : Anti-TBX1 antibody [EPR3289(2)] (ab109313) at 1/5000 dilution

Lane 1 : C6 (Rat glial tumor glial cell) whole cell lysate

Lane 2 : Neuro-2a (Mouse neuroblastoma neuroblast) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 43 kDa

Observed band size: 53 kDa

Blocking buffer: 5% NFDM/TBST.

Exposure time: 30 seconds (Lane 1) and 180 seconds (Lane 2).

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-TBX1 antibody [EPR3289(2)] (ab109313)

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

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