


Anti-Tbx3 antibody ab99302

★★★★★ [5 Abreviews](#) [26 References](#) [3 Images](#)

Overview

Product name	Anti-Tbx3 antibody
Description	Rabbit polyclonal to Tbx3
Host species	Rabbit
Specificity	From Jan 2024, QC testing of replenishment batches of this polyclonal changed. All tested and expected application and reactive species combinations are still covered by our Abcam product promise. However, we no longer test all applications. For more information on a specific batch, please contact our Scientific Support who will be happy to help.
Tested applications	<b>Suitable for:</b> ICC/IF, WB <b>Unsuitable for:</b> IHC-P
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Chicken 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	This antibody gave a positive signal in nuclear extracts from the following cell lines: HepG2; MCF7. IHC-P (FFPE): Human Placenta (Normal) tissue.
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&amp;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	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

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.

<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab99302 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

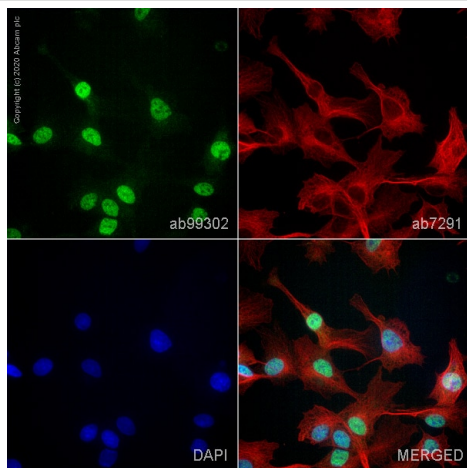
Application	Abreviews	Notes
ICC/IF	★★★★★ (2)	Use a concentration of 5 µg/ml.
WB	★★★★★ (3)	Use a concentration of 1 µg/ml. Detects a band of approximately 79 kDa (predicted molecular weight: 79 kDa).

**Application notes** Is unsuitable for IHC-P.

## Target

<b>Function</b>	Transcriptional repressor involved in developmental processes. Probably plays a role in limb pattern formation.
<b>Tissue specificity</b>	Widely expressed.
<b>Involvement in disease</b>	Defects in TBX3 are the cause of ulnar-mammary syndrome (UMS) [MIM:181450]. UMS is characterized by ulnar ray defects, obesity, hypogenitalism, delayed puberty, hypoplasia of nipples and apocrine glands.
<b>Sequence similarities</b>	Contains 1 T-box DNA-binding domain.
<b>Cellular localization</b>	Nucleus.

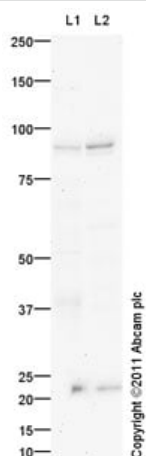
## Images



Immunocytochemistry/ Immunofluorescence - Anti-Tbx3 antibody (ab99302)

ab99302 staining Tbx3 in HepG2 cells. The cells were fixed with 4% Paraformaldehyde (10min), permeabilized with 0.1%PBS-Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab99302 at 5µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control, at 1/1000 dilution. Cells were then incubated with **ab150081**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488) pre-adsorbed, at 1/1000 dilution (shown in green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594) pre-adsorbed, at 1/1000 dilution (shown in pseudocolor red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was taken with a confocal microscope (Perkin Elmer, Operetta CLS).



Western blot - Anti-Tbx3 antibody (ab99302)

**All lanes** : Anti-Tbx3 antibody (ab99302) at 1 µg/ml

**Lane 1** : HepG2 (Human hepatocellular liver carcinoma cell line)  
Nuclear Lysate

**Lane 2** : MCF7 nuclear extract lysate (**ab14860**)

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 79 kDa

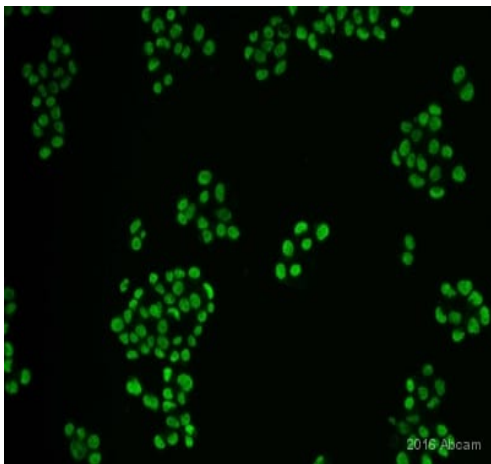
**Observed band size:** 79 kDa

**Additional bands at:** 22 kDa, 77 kDa (possible isoform). We are unsure as to the identity of these extra bands.

**Exposure time:** 3 minutes

Ab99302 should recognise all three isoforms of Tbx3. We are probably observing Isoform I and Isoform II on this Western Blot

image. The molecular weights of Isoform I and Isoform II are 77- and 79-kDa respectively.



Immunocytochemistry/ Immunofluorescence - Anti-Tbx3 antibody (ab99302)

This image is courtesy of an Abreview by Zoe Burke.

ab99302 staining Tbx3 in the AR42J-B13 rat pancreatic tumor cell line by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton/PBS and blocked with blocking buffer for 60 minutes at room temperature. Samples were incubated with primary antibody (1/100) for 18 hours at 4°C. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG polyclonal was used as the secondary antibody at a dilution of 1/5000.

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

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