# Anti-TBX18 antibody ab115262

## Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-TBX18 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to TBX18</td>
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<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: ICC/IF, WB</td>
</tr>
</tbody>
</table>
| **Species reactivity** | Reacts with: Human  
Predicted to work with: Mouse, Rat, Rabbit, Cow, Pig, Chimpanzee, Macaque monkey, Gorilla, Chinese hamster, Orangutan |
| **Immunogen** | Synthetic peptide corresponding to Human TBX18 aa 400-500 conjugated to keyhole limpet haemocyanin. (Peptide available as ab150447) |
| **Positive control** | This antibody gave a positive signal in the following whole cell lysates: HeLa; Jurkat; HUVEC; HepG2; MCF7; Caco2. This antibody gave a positive result when used in the following methanol fixed cell lines: HeLa. |

## Properties

<table>
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<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
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<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>
| **Storage buffer** | pH: 7.40  
Preservative: 0.02% Sodium azide  
Constituent: PBS  
Note: 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. |
| **Purity** | Immunogen affinity purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications
Our Abpromise guarantee covers the use of ab115262 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ICC/IF</td>
<td>⭐⭐⭐ ⚠️</td>
<td>Use a concentration of 5 µg/ml.</td>
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<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 70 kDa (predicted molecular weight: 64 kDa).</td>
</tr>
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</table>

**Target**

**Function**
Probable transcriptional regulator involved in developmental processes.

**Sequence similarities**
Contains 1 T-box DNA-binding domain.

**Cellular localization**
Nucleus.

**Images**

**Immunocytochemistry/ Immunofluorescence - Anti-TBX18 antibody (ab115262)**

ab115262 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab115262 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti-rabbit (ab96899) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

**Western blot - Anti-TBX18 antibody (ab115262)**

*All lanes* : Anti-TBX18 antibody (ab115262) at 1 µg/ml

- **Lane 1**: HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
- **Lane 2**: Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate
- **Lane 3**: HUVEC (Human Umbilical Vein Endothelial Cell) Whole Cell Lysate
- **Lane 4**: HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate
- **Lane 5**: MCF7 (Human breast adenocarcinoma cell line) Whole Cell Lysate
- **Lane 6**: Caco 2 (Human colonic carcinoma cell line) Whole Cell Lysate
Lysate

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**: 64 kDa

**Observed band size**: 70 kDa

*why is the actual band size different from the predicted?*

**Additional bands at**: 68 kDa. We are unsure as to the identity of these extra bands.

**Exposure time**: 2 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 5% Bovine Serum Albumin before being incubated with ab115262 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.

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

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