


## Product datasheet

### Anti-Wnt7a antibody ab100792

★ ★ ★ ★ ★ [2 Abreviews](#) [19 References](#) [3 Images](#)

#### Overview

<b>Product name</b>	Anti-Wnt7a antibody
<b>Description</b>	Rabbit polyclonal to Wnt7a
<b>Host species</b>	Rabbit
<b>Specificity</b>	From Mar 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.
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Chicken, Chimpanzee, Gorilla, Orangutan 
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	Recombinant human Wnt7a protein ( <a href="#">ab116171</a> ) can be used as positive control in WB. In Western Blot, ab100792 gave a positive signal in Human kidney tissue lysate, human and mouse kidney lysate, HEPg2 cells, COLO 205 whole cell lysate and human colon tumor tissue. ICC/IF: HepG2 cells.
<b>General notes</b>	<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

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	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

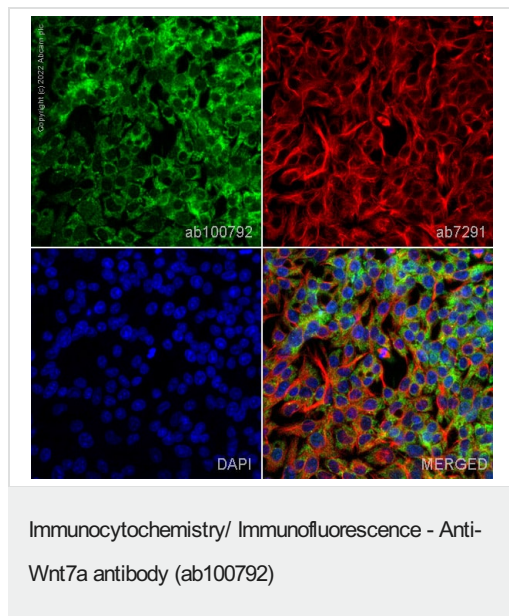
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab100792 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 41 kDa (predicted molecular weight: 39 kDa). Abcam recommends using 5% BSA as the blocking agent.
ICC/IF	★★★★★ (1)	Use a concentration of 5 µg/ml.

## Target

<b>Function</b>	Ligand for members of the frizzled family of seven transmembrane receptors. Probable developmental protein. Signaling by Wnt-7a allows sexually dimorphic development of the mullerian ducts.
<b>Tissue specificity</b>	Expression is restricted to placenta, kidney, testis, uterus, fetal lung, and fetal and adult brain.
<b>Involvement in disease</b>	Defects in WNT7A are the cause of limb/pelvis-hypoplasia/aplasia syndrome (LPHAS) [MIM:276820]; also known as absence of ulna and fibula with severe limb deficiency. LPHAS is a limb-malformation disorder characterized by various degrees of limb aplasia/hypoplasia and joint dysplasia. Defects in WNT7A are a cause of Fuhrmann syndrome (FUHRS) [MIM:228930]; also known as fibular aplasia or hypoplasia femoral bowing and poly- syn- and oligodactyly. Fuhrmann syndrome is a distinct limb-malformation disorder characterized also by various degrees of limb aplasia/hypoplasia and joint dysplasia.
<b>Sequence similarities</b>	Belongs to the Wnt family.
<b>Cellular localization</b>	Secreted > extracellular space > extracellular matrix.

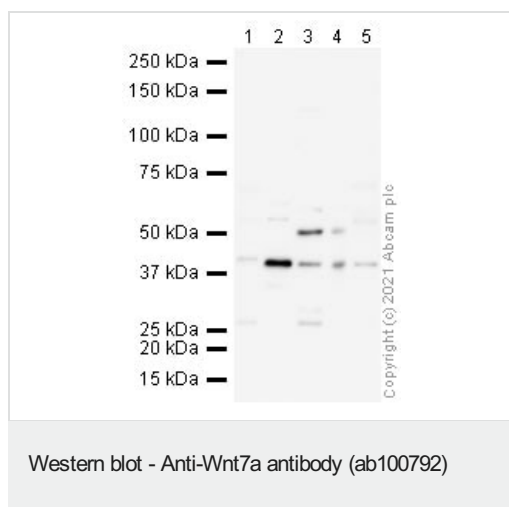
## Images



ab100792 staining Wnt7a in HepG2 cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Tween 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 ab100792 at 1µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin - Loading Control. 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 pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Also suitable in cells fixed with 4% paraformaldehyde (10 min).

Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



**All lanes** : Anti-Wnt7a antibody (ab100792) at 1 µg/ml

**Lane 1** : Human Kidney lysate

**Lane 2** : Mouse Kidney lysate

**Lane 3** : HepG2 whole cell lysate

**Lane 4** : COLO 205 whole cell lysate

**Lane 5** : Human Colon tumour tissue lysate

Lysates/proteins at 10 µg per lane.

## Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) at 1/50000 dilution

**Predicted band size:** 39 kDa

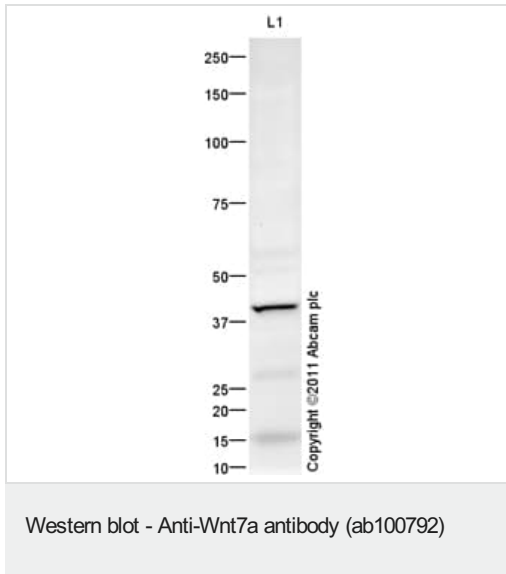
Exposure: 4 minutes

Blocking buffer: 2% BSA

Gel type: MOPS

Observed band size: 41 kDa

Additional bands: 50 kDa, 27kDa



Anti-Wnt7a antibody (ab100792) at 1 µg/ml + Human kidney tissue lysate - total protein (**ab30203**) at 10 µg

### Secondary

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:** 39 kDa

**Observed band size:** 41 kDa

**Additional bands at:** 15 kDa, 28 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 16 minutes

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

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