

## Product datasheet

# Anti-Wnt10b antibody ab70816

★★★★☆ [2 Abreviews](#) [22 References](#) [3 Images](#)

### Overview

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<b>Product name</b>	Anti-Wnt10b antibody
<b>Description</b>	Rabbit polyclonal to Wnt10b
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab70816 only recognizes the longer isoform of Wnt10b and will not cross-react with Wnt10a.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	15 amino acid peptide from near the center of human Wnt10b (NP_003385).
<b>Positive control</b>	Human skeletal muscle tissue lysate.
<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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab70816 in the following tested applications.

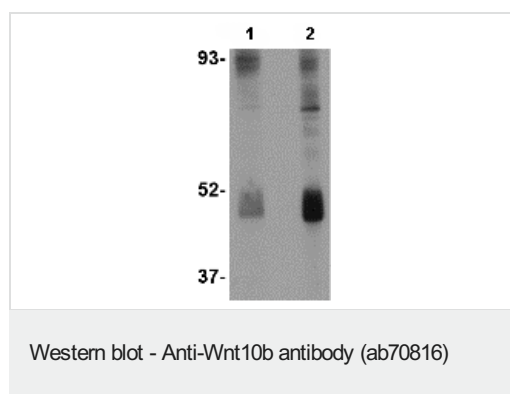
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.
IHC-P		Use a concentration of 2.5 µg/ml.
WB	★★★★ (2)	Use a concentration of 2 - 4 µg/ml. Detects a band of approximately 47 kDa (predicted molecular weight: 43 kDa).

## Target

<b>Function</b>	Ligand for members of the frizzled family of seven transmembrane receptors. Probable developmental protein. May be a signaling molecule which affects the development of discrete regions of tissues. Is likely to signal over only few cell diameters.
<b>Tissue specificity</b>	Detected in most adult tissues. Highest levels were found in heart and skeletal muscle. Low levels are found in brain.
<b>Involvement in disease</b>	Defects in WNT10B are the cause of split-hand/foot malformation type 6 (SHFM6) [MIM:225300]. SHFM is a limb malformation involving the central rays of the autopod and presenting with syndactyly, median clefts of the hands and feet, and aplasia and/or hypoplasia of the phalanges, metacarpals, and metatarsals. SHFM6 is a autosomal recessive disorder.
<b>Sequence similarities</b>	Belongs to the Wnt family.
<b>Developmental stage</b>	Infant brain has higher levels of WNT10B than adult brain.
<b>Cellular localization</b>	Secreted > extracellular space > extracellular matrix.

## Images



**Lane 1 :** Anti-Wnt10b antibody (ab70816) at 2 µg/ml

**Lane 2 :** Anti-Wnt10b antibody (ab70816) at 4 µg/ml

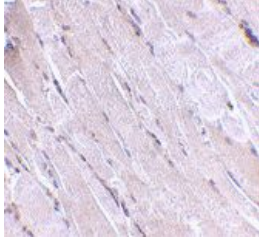
**All lanes :** Human skeletal muscle tissue lysate

Lysates/proteins at 15 µg per lane.

**Predicted band size:** 43 kDa

**Observed band size:** 47 kDa

**Additional bands at:** 93 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Wnt10b antibody (ab70816)

ab70816 at 2.5  $\mu$ /ml staining Wnt10 in human skeletal muscle tissue section by Immunohistochemistry (Formalin/ PFA fixed paraffin-embedded tissue sections).

Immunocytochemistry/ Immunofluorescence - Anti-Wnt10b antibody (ab70816)

ICC/IF image of ab70816 stained HeLa cells. The cells were 4% formaldehyde fixed (10 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 (ab70816, 5 $\mu$ g/ml) overnight at +4°C. The secondary antibody (green) was **ab96899**, DyLight® 488 goat anti-rabbit 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 1.43 $\mu$ M.

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

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