

## Product datasheet

# Anti-Isoleucyl tRNA synthetase antibody ab31533

[2 Images](#)

### Overview

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<b>Product name</b>	Anti-Isoleucyl tRNA synthetase antibody
<b>Description</b>	Rabbit polyclonal to Isoleucyl tRNA synthetase
<b>Host species</b>	Rabbit
<b>Specificity</b>	This antibody reacts specifically with Isoleucyl tRNA synthetase protein.
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	S1074-F1264 denatured recombinant human IRS.
<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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide
<b>Purity</b>	Whole antiserum
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab31533 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		1/2000. Predicted molecular weight: 145 kDa.
ICC/IF		1/1000.

## Target

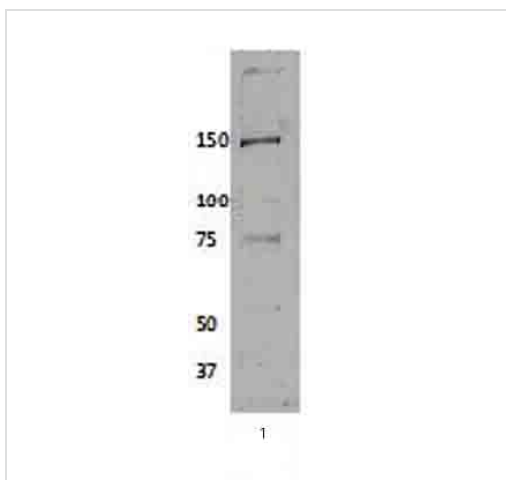
<b>Relevance</b>	Isoleucyl tRNA synthetase is a component of multi ARS complex and catalyzes the ligation of isoleucine with isoleucyl tRNA.
<b>Cellular localization</b>	Cytoplasmic

## Images



Immunocytochemistry/ Immunofluorescence - Anti-Isoleucyl tRNA synthetase antibody (ab31533)

ICC/IF image of ab31533 stained MCF7 cells. The cells were 4% PFA 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 (ab31533, 1/1000 dilution) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 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-Isoleucyl tRNA synthetase antibody (ab31533)

Anti-Isoleucyl tRNA synthetase antibody (ab31533) at 1/2000 dilution + whole cell lysate prepared from HEK293 cells at 50 µg/ml

### Secondary

Goat anti-rabbit IgG (H+L) at 1/10000 dilution

**Predicted band size:** 145 kDa

**Observed band size:** 150 kDa

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

### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

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- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors