


## Product datasheet

# Anti-ORC4L antibody ab9641

[11 References](#) [4 Images](#)

### Overview

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<b>Product name</b>	Anti-ORC4L antibody
<b>Description</b>	Goat polyclonal to ORC4L
<b>Host species</b>	Goat
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human <b>Predicted to work with:</b> Cow, Dog 
<b>Immunogen</b>	Synthetic peptide corresponding to Human ORC4L aa 400-500 (C terminal). (NP_001177810.1; NP_001177811.1) Database link: <a href="#">NP_002543.2</a>

 [Run BLAST with](#)

 [Run BLAST with](#)

### General notes

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.

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&As

### 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 or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab9641 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		Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa). 1 hour primary incubation is recommended for this product.

## Target

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**Function** Component of the origin recognition complex (ORC) that binds origins of replication. DNA-binding is ATP-dependent, however specific DNA sequences that define origins of replication have not been identified so far. ORC is required to assemble the pre-replication complex necessary to initiate DNA replication.

**Involvement in disease** Defects in ORC4 are the cause of Meier-Gorlin syndrome type 2 (MGORS2) [MIM:613800]. MGORS2 is a syndrome characterized by bilateral microtia, aplasia/hypoplasia of the patellae, and severe intrauterine and postnatal growth retardation with short stature and poor weight gain. Additional clinical findings include anomalies of cranial sutures, microcephaly, apparently low-set and simple ears, microstomia, full lips, highly arched or cleft palate, micrognathia, genitourinary tract anomalies, and various skeletal anomalies. While almost all cases have primordial dwarfism with substantial prenatal and postnatal growth retardation, not all cases have microcephaly, and microtia and absent/hypoplastic patella are absent in some. Despite the presence of microcephaly, intellect is usually normal.

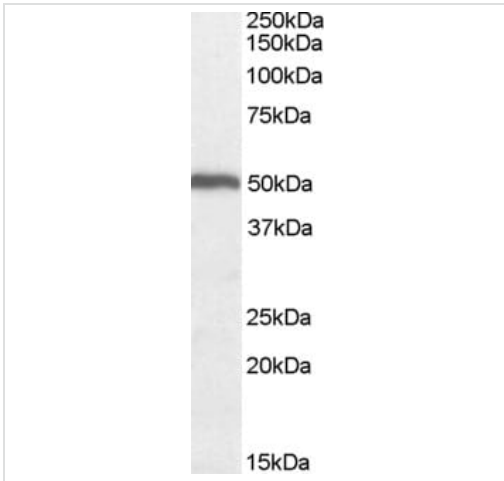
**Sequence similarities** Belongs to the ORC4 family.

**Cellular localization** Nucleus.

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## Images

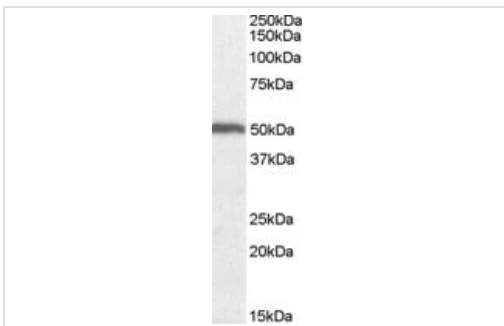
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Western blot - Anti-ORC4L antibody - CHIP Grade (ab9641)

Anti-ORC4L antibody (ab9641) at 0.5 µg/ml + Mouse heart lysate at 35 µg

**Predicted band size:** 50 kDa



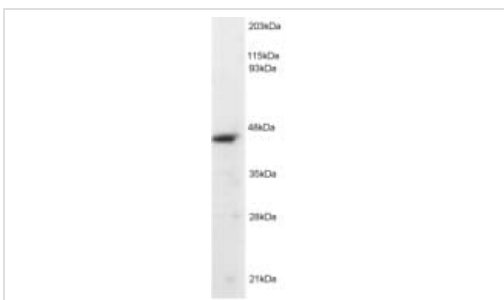
Western blot - Anti-ORC4L antibody - CHIP Grade (ab9641)

Anti-ORC4L antibody (ab9641) at 0.5 µg/ml + Rat Heart lysate in RIPA buffer at 35 µg

Developed using the ECL technique.

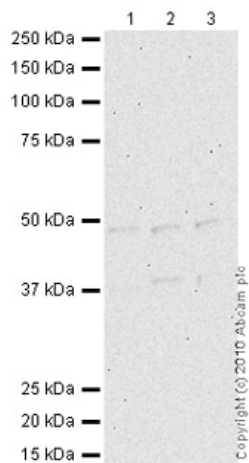
**Predicted band size:** 50 kDa

**Observed band size:** 50 kDa



Western blot - Anti-ORC4L antibody - CHIP Grade (ab9641)

ab9641 (2µg/ml) staining of Jurkat lysate (RIPA buffer, 1.4E5 cells per lane). Detected by western blot using chemiluminescence.



Western blot - Anti-ORC4L antibody - ChIP Grade (ab9641)

**All lanes :** Anti-ORC4L antibody (ab9641) at 1 µg/ml

**Lane 1 :** Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

**Lane 2 :** HepG2 (Human hepatocellular liver carcinoma cell line) Whole Cell Lysate

**Lane 3 :** HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Rabbit polyclonal to Goat IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 50 kDa

**Observed band size:** 49 kDa

**Additional bands at:** 38 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 20 minutes

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

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