

## Anti-ORC5L/ORC5 Antibody Picoband™

Catalog Number: A03676-1

### About ORC5

Origin recognition complex subunit 5 is a protein that in humans is encoded by the ORC5 (ORC5L) gene. The origin recognition complex (ORC) is a highly conserved six subunit protein complex essential for the initiation of the DNA replication in eukaryotic cells. Studies in yeast demonstrated that ORC binds specifically to origins of replication and serves as a platform for the assembly of additional initiation factors such as Cdc6 and Mcm proteins. The protein encoded by this gene is a subunit of the ORC complex. Alternatively spliced transcript variants encoding distinct isoforms have been described.

### Overview

Product Name	Anti-ORC5L/ORC5 Antibody Picoband™
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-ORC5L/ORC5 Antibody Picoband™ catalog # A03676-1. Tested in WB applications. This antibody reacts with Human, Monkey, Mouse, Rat.
Application	Flow Cytometry, IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O43913

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human ORC5, identical to the related mouse sequence.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.1-0.25ug/ml, Human, Mouse, Rat, Monkey

Immunocytochemistry/Immunofluorescence, 5ug/ml, Human

Flow Cytometry, 1-3ug/1x10<sup>6</sup> cells, Human

## Anti-ORC5L/ORC5 Antibody Picoband™ (A03676-1) Images

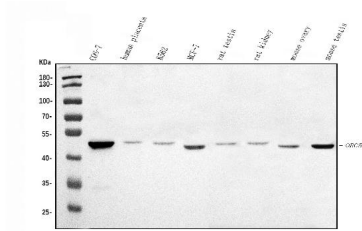


Figure 1. Western blot analysis of ORC5L/ORC5 using anti-ORC5L/ORC5 antibody (A03676-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: monkey COS-7 whole cell lysates,  
Lane 2: human placenta tissue lysates,  
Lane 3: human K562 whole cell lysates,  
Lane 4: human MCF-7 whole cell lysates,  
Lane 5: rat testis tissue lysates,  
Lane 6: rat kidney tissue lysates,  
Lane 7: mouse ovary tissue lysates,  
Lane 8: mouse testis tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ORC5L/ORC5 antigen affinity purified polyclonal antibody (Catalog # A03676-1) at 0.25 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for ORC5L/ORC5 at approximately 50 kDa. The expected band size for ORC5L/ORC5 is at 50 kDa.

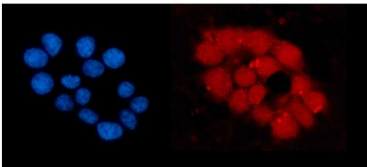


Figure 2. IF analysis of ORC5L/ORC5 using anti-ORC5L/ORC5 antibody (A03676-1).

ORC5L/ORC5 was detected in an immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-ORC5L/ORC5 Antibody (A03676-1) overnight at 4°C. DyLight®594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

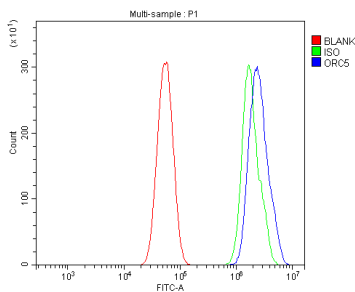


Figure 3. Flow Cytometry analysis of U87 cells using anti-ORC5L/ORC5 antibody (A03676-1).

Overlay histogram showing U87 cells stained with A03676-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ORC5L/ORC5 Antibody (A03676-1, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions.

Unlabelled sample (Red line) was also used as a control.

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