

## Product datasheet

# Anti-IL-2 antibody [EPR20055] ab207325

Recombinant RabMAb

5 Images

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-IL-2 antibody [EPR20055]   |
| <b>Description</b>         | Rabbit monoclonal [EPR20055] to IL-2  |
| <b>Host species</b>        | Rabbit  |
| <b>Tested applications</b> | <b>Suitable for:</b> WB, ICC/IF, IP   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human, Recombinant fragment   |
| <b>Immunogen</b>           | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.  |
| <b>Positive control</b>    | WB: Human IL2 active recombinant protein; Jurkat lysate treated with 40nM Phorbol-12-myristate-13-acetate, 2 µM A23187, and 300 ng/ml Brefeldin A (45 min delay) overnight. ICC/IF: Jurkat cells treated with 40 nM Phorbol-12-myristate-13-acetate, 2 µM A23187, and 300 ng/ml Brefeldin A (45 min delay) overnight. IP: Jurkat lysate treated with 40nM Phorbol-12-myristate-13-acetate, 2 µM A23187, and 300 ng/ml Brefeldin A (45 min delay) overnight.   |
| <b>General notes</b>       | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</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 long term. Avoid freeze / thaw cycle. |
| <b>Storage buffer</b>       | pH: 7.2<br>Preservative: 0.01% Sodium azide<br>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA               |
| <b>Purity</b>               | Protein A purified  |
| <b>Clonality</b>            | Monoclonal  |

Clone number                      EPR20055  
Isotype                                IgG

## Applications

**The Abpromise guarantee**                      Our [Abpromise guarantee](#) covers the use of ab207325 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          |           | 1/1000. Detects a band of approximately 14 kDa (predicted molecular weight: 17 kDa). |
| ICC/IF      |           | 1/500.   |
| IP          |           | 1/20.  |

## Target

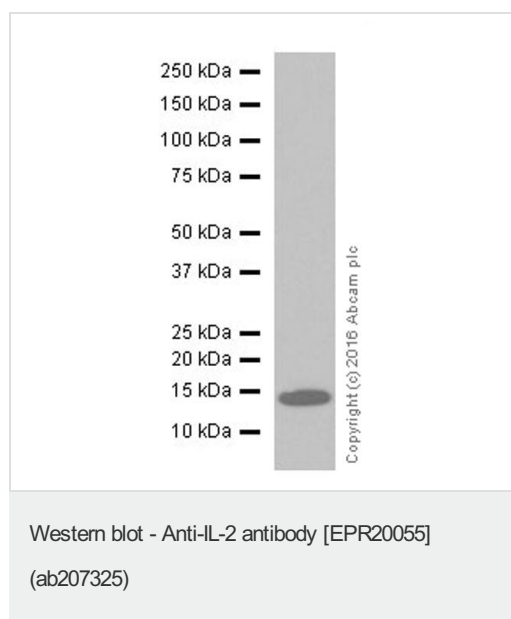
**Function**    Produced by T-cells in response to antigenic or mitogenic stimulation, this protein is required for T-cell proliferation and other activities crucial to regulation of the immune response. Can stimulate B-cells, monocytes, lymphokine-activated killer cells, natural killer cells, and glioma cells.

**Involvement in disease**                      Note=A chromosomal aberration involving IL2 is found in a form of T-cell acute lymphoblastic leukemia (T-ALL). Translocation t(4;16)(q26;p13) with involves TNFRSF17.

**Sequence similarities**                              Belongs to the IL-2 family.

**Cellular localization**                              Secreted.

## Images



Anti-IL-2 antibody [EPR20055] (ab207325) at 1/1000 dilution + Human IL2 active recombinant protein at 0.01 µg

### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

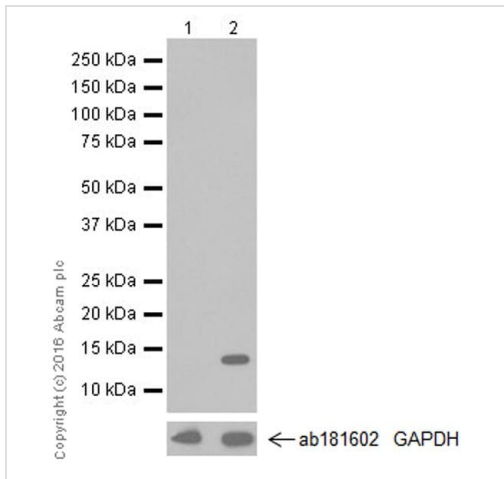
**Predicted band size:** 17 kDa

**Observed band size:** 14 kDa

**Exposure time:** 1 minute

Blocking/Dilution buffer: 5% NFDm/TBST.

Human IL2 active recombinant protein contains aa21-153.



Western blot - Anti-IL-2 antibody [EPR20055] (ab207325)

**All lanes** : Anti-IL-2 antibody [EPR20055] (ab207325) at 1/5000 dilution

**Lane 1** : Untreated Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

**Lane 2** : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate treated with 40nM Phorbol-12-myristate-13-acetate, 2 μM A23187, and 300 ng/ml Brefeldin A (45 min delay) overnight

Lysates/proteins at 10 μg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

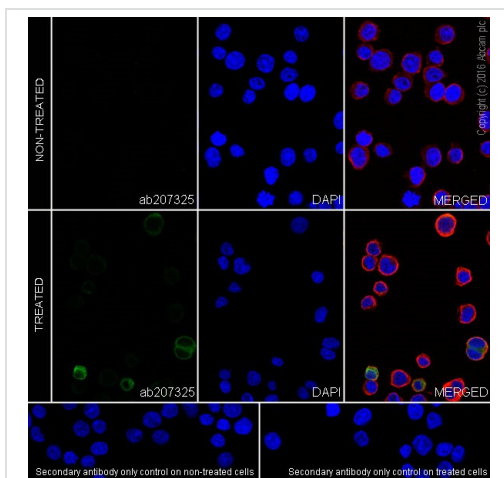
**Predicted band size:** 17 kDa

**Observed band size:** 14 kDa

**Exposure time:** 1 minute

Blocking/Dilution buffer: 5% NFDm/TBST.

The molecular weight observed is consistent with the literature, and the expression level can be induced in activated Jurkat cell. (PMID:10555752).



Immunocytochemistry/ Immunofluorescence - Anti-IL-2 antibody [EPR20055] (ab207325)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Jurkat (Human T cell leukemia cell line from peripheral blood) cells, untreated or treated with 40 nM Phorbol-12-myristate-13-acetate, 2 μM A23187, and 300 ng/ml Brefeldin A (45 min delay) overnight, labeling IL2 with ab207325 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green).

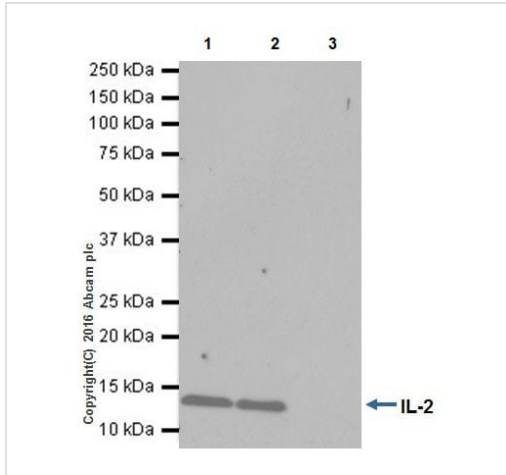
Confocal image showing cytoplasmic staining on Jurkat cells. The signal is induced after treatment with 40 nM Phorbol-12-myristate-13-acetate, 2 μM A23187, and 300 ng/ml Brefeldin A (45 min delay) overnight.

The nuclear counter stain is DAPI (blue).

Tubulin is detected with (Anti-alpha Tubulin antibody [DM1A] -

Microtubule Marker (Alexa Fluor® 594) ([ab195889](#)) at 1/200 dilution (red).

Secondary antibody only controls on non treated and treated cells:  
Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) at 1/1000 dilution.



Immunoprecipitation - Anti-IL-2 antibody [EPR20055] (ab207325)

IL2 was immunoprecipitated from 0.35 mg of Jurkat (Human T cell leukemia cell line from peripheral blood) treated with 40nM Phorbol-12-myristate-13-acetate, 2  $\mu$ M A23187, and 300 ng/ml Brefeldin A (45 min delay) overnight lysate with ab207325 at 1/20 dilution.

Western blot was performed from the immunoprecipitate using ab207325 at 1/200 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/1000 dilution.

Lane 1: Jurkat treated with 40nM Phorbol-12-myristate-13-acetate, 2  $\mu$ M A23187, and 300 ng/ml Brefeldin A (45 min delay) overnight lysate 10 $\mu$ g (Input).

Lane 2: ab207325 IP in Jurkat treated with 40nM Phorbol-12-myristate-13-acetate, 2  $\mu$ M A23187, and 300 ng/ml Brefeldin A (45 min delay) overnight lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A] - Isotype Control ([ab172730](#)) instead of ab207325 in Jurkat treated with 40nM Phorbol-12-myristate-13-acetate, 2  $\mu$ M A23187, and 300 ng/ml Brefeldin A (45 min delay) overnight lysate.

Blocking and dilution buffer and concentration: 5% NFDN/TBST.

Exposure time: 3 minutes.

Why choose a recombinant antibody?

|  |  |
|--|--|
|  <p><b>Research with confidence</b><br/>Consistent and reproducible results</p> |  <p><b>Long-term and scalable supply</b><br/>Recombinant technology</p> |
|  <p><b>Success from the first experiment</b><br/>Confirmed specificity</p>      |  <p><b>Ethical standards compliant</b><br/>Animal-free production</p>   |

Anti-IL-2 antibody [EPR20055] (ab207325)

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

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