

Product datasheet

Anti-IL-2 antibody [EPR2780] - BSA and Azide free ab216453

Recombinant RabMAb

[4 Images](#)

Overview

Product name	Anti-IL-2 antibody [EPR2780] - BSA and Azide free
Description	Rabbit monoclonal [EPR2780] to IL-2 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF Unsuitable for: Flow Cyt (Intra), IHC-P or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Recombinant human IL-2 full length protein and Jurkat (Human T cell leukemia cell line from peripheral blood) treated with 40nM Phorbol-12-myristate-13-acetate, 2 µM A23187 and 300 ng/ml Brefeldin A (45 min delay) overnight whole cell lysate. ICC/IF: PBMC cells.
General notes	<p>ab216453 is the carrier-free version of ab92381.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.20 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR2780
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab216453 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

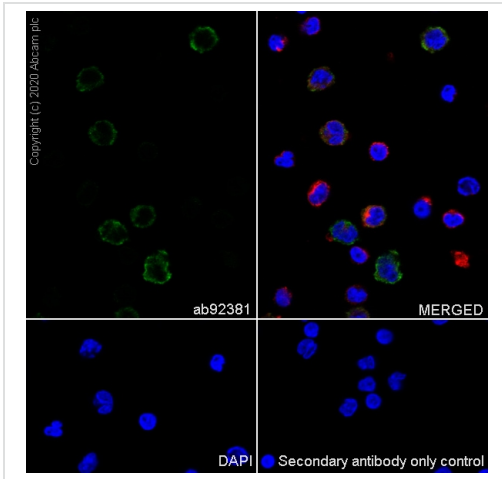
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 18 kDa.
ICC/IF		Use at an assay dependent concentration.

Application notes Is unsuitable for Flow Cyt (Intra),IHC-P or IP.

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.

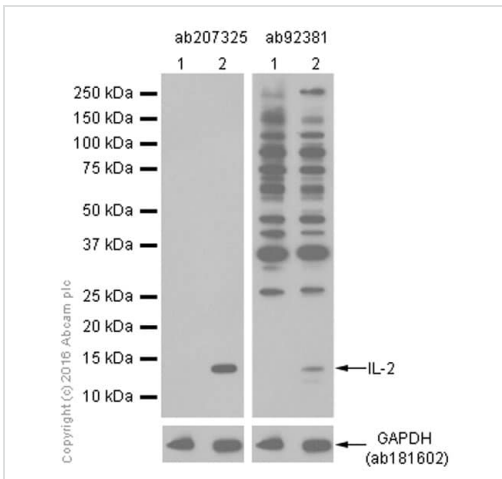
Images



Immunocytochemistry/ Immunofluorescence - Anti-IL-2 antibody [EPR2780] - BSA and Azide free (ab216453)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab92381**).

Immunocytochemistry/ Immunofluorescence analysis of PBMC (Human primary peripheral blood mononuclear cell) cells labeling IL-2 using **ab92381**. The cells were fixed with 4% paraformaldehyde then permeabilized with 0.1% Triton X-100. The cells were then incubated with **ab92381** at 1:50 dilution followed by a further incubation with a Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 2 µg/ml (shown in green). Nuclear DNA was labelled in blue with DAPI. Cells were counterstained using **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1:200 dilution (shown in red). Secondary antibody only control: PBS instead of the primary antibody.



Western blot - Anti-IL-2 antibody [EPR2780] - BSA and Azide free (ab216453)

All lanes : Anti-IL-2 antibody [EPR2780] (**ab92381**) 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) treated with 40nM Phorbol-12-myristate-13-acetate, 2 µM A23187 and 300 ng/ml Brefeldin A (45 min delay) overnight whole cell lysate

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: 18 kDa

Observed band size: 14 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab92381**).

Blocking and diluting buffer and concentration: 5% NFDm/TBST.

ab207325 is recommended to detect endogenous IL-2.

ab181602 was used as GAPDH loading control.

Anti-IL-2 antibody [EPR2780] (**ab92381**) at 1/1000 dilution +
Recombinant human IL-2 full length protein, 10 ng

Secondary

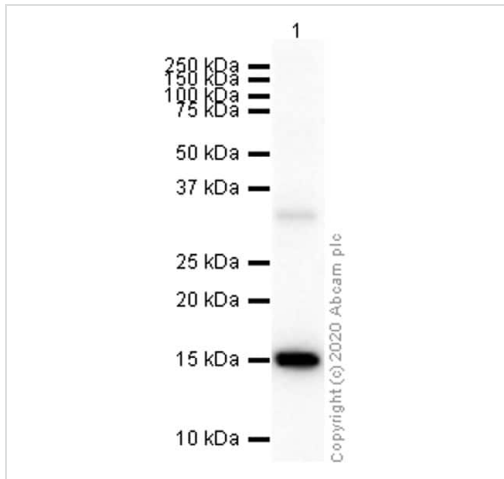
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 18 kDa

Observed band size: 15 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab92381**).

Blocking and diluting buffer and concentration: 5% NFD/MTBST.



Western blot - Anti-IL-2 antibody [EPR2780] - BSA and Azide free (ab216453)

Why choose a recombinant antibody?

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

Anti-IL-2 antibody [EPR2780] - BSA and Azide free (ab216453)

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

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