abcam

Product datasheet

Anti-IL-2 antibody [EPR16615-341] - BSA and Azide free ab278101

Recombinant RabMAb

4 Images

Overview

Product name	Anti-IL-2 antibody [EPR16615-341] - BSA and Azide free
Description	Rabbit monoclonal [EPR16615-341] to IL-2 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), ICC/IF **Unsuitable for:** IHC-P,IP or WB
Species reactivity	**Reacts with:** Mouse
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: EL4.IL-2 cells. Flow Cyt (intra):EL4.IL-2 (mouse lymphoma T lymphocyte) treated with 80nM PMA + 1.34uM Ionomycin + 10.6uM Brefeldin A + 2uM Monensin for 6 h, Mouse splenocytes treated with 80nM PMA+1.34uM Ionomycin+10.6uM Brefeldin A+2uM Monensin.
General notes	ab278101 is the carrier-free version of **ab243650**. 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. 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. 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. 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. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit

monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16615-341
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab278101 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

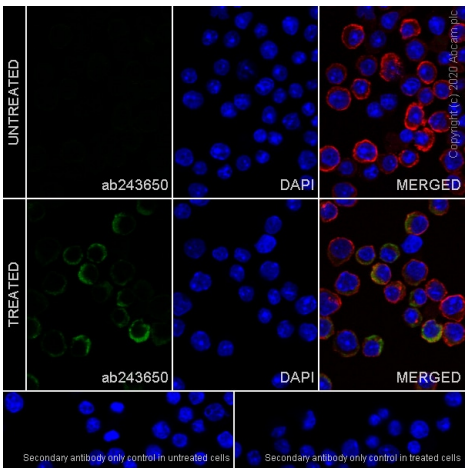
Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

Application notes Is unsuitable for IHC-P,IP or WB.

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

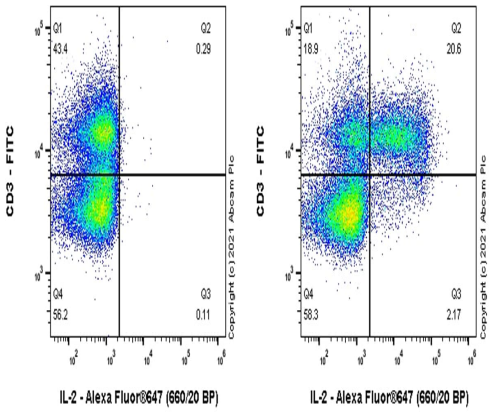


Immunocytochemistry/ Immunofluorescence - Anti-IL-2 antibody [EPR16615-341] - BSA and Azide free (ab278101)

This data was developed using **ab243650**, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized EL4.IL-2 cells labelling IL-2 with **ab243650** at 1/50 (9.1 ug/ml) dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green) Confocal image showing cytoplasmic staining in EL4.IL-2 cell line treated with Cell Stimulation Cocktail (80nM PMA + 1.34uM Ionomycin + 10.6uM Brefeldin A + 2uM Monensin) for 6 h. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

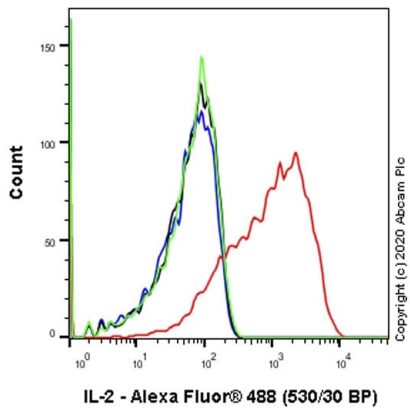
Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-IL-2 antibody [EPR16615-341] - BSA and Azide free (ab278101)

This data was developed using **ab243650**, the same antibody clone in a different buffer formulation.

Intracellular flow cytometric analysis of 2% paraformaldehyde fixed 0.1% Tween-20 permeabilized Mouse splenocytes treated with cell stimulation cocktail (80nM PMA+1.34uM Ionomycin+10.6uM Brefeldin A+2uM Monensin) for 6 hours (Right)/ Untreated control (Left). cells labelling IL-2 with **ab243650** at 1/500 dilution (1ug)/ Left and Right (Red) compared with a isotype control. A Goat anti rabbit IgG (Alexa Fluor® 647, **ab150079**) at 1/2000 dilution was used as the secondary antibody. Cells were surface stained with anti-CD3 conjugated to FITC. Then fixed with 2% PFA for 10min followed by intracellularly stained with **ab243650**. Gated on lymphocytes population. Data was kindly provided by an anonymous collaborator.



Flow Cytometry (Intracellular) - Anti-IL-2 antibody [EPR16615-341] - BSA and Azide free (ab278101)

This data was developed using **ab243650**, the same antibody clone in a different buffer formulation.

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized EL4.IL-2 (mouse lymphoma T lymphocyte) treated with cell stimulation cocktail (80nM PMA + 1.34uM Ionomycin + 10.6uM Brefeldin A + 2uM Monensin) for 6 hours (Red)/ Untreated control (Green) cells labelling IL-2 with **ab243650** at 1/50 dilution (1ug) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Anti-IL-2 antibody [EPR16615-341] - BSA and Azide free (ab278101)

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