abcam

Product datasheet

Anti-IL-2 Receptor alpha antibody [OX39] ab6411

2 Images

Overview

Product name	Anti-IL-2 Receptor alpha antibody [OX39]
Description	Mouse monoclonal [OX39] to IL-2 Receptor alpha
Host species	Mouse
Tested applications	**Suitable for:** IHC-Fr, Flow Cyt
Species reactivity	**Reacts with:** Rat, Human
Immunogen	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
Positive control	Flow Cyt: Lewis rat splenocytes treated with 5 g/ml ConA for 3 days. IHC-Fr: Normal rat spleen tissue.
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Protein G purified
Clonality	Monoclonal
Clone number	OX39
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab6411 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
IHC-Fr		Use a concentration of 5 µg/ml.
Flow Cyt		Use a concentration of 0.2 µg/ml.

Target

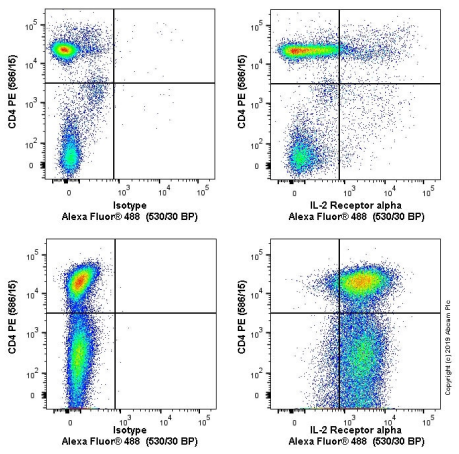
Function Receptor for interleukin-2.

Involvement in disease Genetic variations in IL2RA are associated with susceptibility to diabetes mellitus insulin-dependent type 10 (IDDM10) [MIM:601942]. A multifactorial disorder of glucose homeostasis that is characterized by susceptibility to ketoacidosis in the absence of insulin therapy. Clinical fetaures are polydipsia, polyphagia and polyuria which result from hyperglycemia-induced osmotic diuresis and secondary thirst. These derangements result in long-term complications that affect the eyes, kidneys, nerves, and blood vessels.

Sequence similarities Contains 2 Sushi (CCP/SCR) domains.

Cellular localization Membrane.

Images



Flow Cytometry - Anti-IL-2 Receptor alpha antibody [OX39] (ab6411)

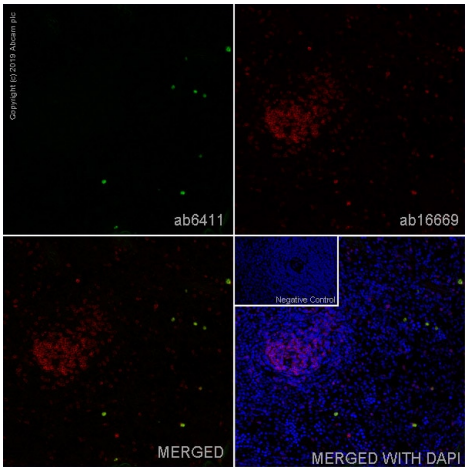
Lewis rat splenocytes (top) or Lewis rat splenocytes treated with 5 µg/ml ConA for 3 days (bottom) were stained with ab6411 (right) or mouse IgG1 kappa (**ab170190**) isotype (left).

Splenocytes were incubated for 30 min on ice in 1x PBS containing 10 % rat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody (ab6411) or mouse IgG1 kappa (**ab170190**) isotype (1x 10^6 in 100 µl at 0.2 µg/ml) for 30 min on ice.

The secondary antibody Goat anti-mouse IgG H&L (Alexa Fluor ® 488, pre-adsorbed) (**ab150117**) was used at 1/2000 dilution for 30 min on ice.

The cells were simultaneously stained with CD4.

Acquisition of >30,000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter. Events were gated on CD3 positive T cells.



Immunohistochemistry (Frozen sections) - Anti-IL-2 Receptor alpha antibody [OX39] (ab6411)

IHC image of IL2 receptor alpha staining in a section of frozen normal rat spleen.

The section was fixed using 10% formaldehyde in 1XPBS for 10 minutes. No antigen retrieval step was performed prior to staining. Non-specific protein-protein interactions were then blocked in TBS containing 0.025% (v/v) Triton X-100, 0.3M glycine and 1% (w/v) BSA for 1h at room temperature. The section was then incubated overnight at +4°C in TBS containing 0.025% (v/v) Triton X-100 and 1% (w/v) BSA with ab6411 at 5µg/ml and **ab16669** (Rabbit monoclonal [SP7] to CD3) at 1/150. The section was then incubated with **ab150117** (Goat Anti-Mouse IgG H&L (Alexa Fluor®488), 1/1000)) (shown in green) and **ab150080** Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594), 1/1000) (shown in red) for 1 hour at room temperature. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. The secondary-only control insert image is taken from an identical assay without primary antibody. The section was then mounted using Fluoromount®.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

For IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antibody concentrations and incubation times.

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