abcam

Product datasheet

Anti-CD86 antibody [OX48] - BSA and Azide free ab244583

2 Images

Overview

Product name	Anti-CD86 antibody [OX48] - BSA and Azide free
Description	Mouse monoclonal [OX48] to CD86 - BSA and Azide free
Host species	Mouse
Tested applications	**Suitable for:** IHC-Fr, Flow Cyt
Species reactivity	**Reacts with:** Rat
Immunogen	Tissue, cells or virus corresponding to Rat CD86. Activated rat T cells.
Positive control	IHC-Fr: Rat spleen tissue. Flow Cyt: Lewis rat splenocytes.
General notes	ab244583 is the carrier-free version of **ab238468**. This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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. 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 +4°C. Do Not Freeze.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein G purified
Purification notes	Purified from TCS.
Clonality	Monoclonal
Clone number	OX48
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab244583 in the following tested applications.

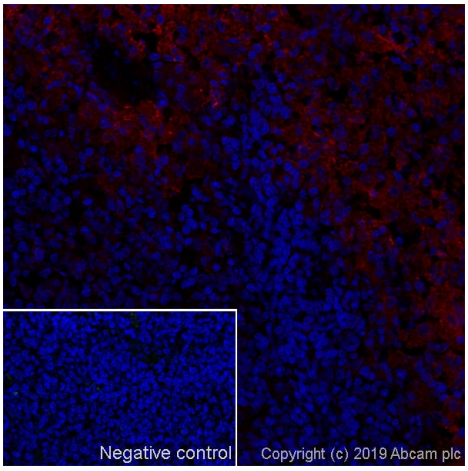
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		Use a concentration of 5 µg/ml.
Flow Cyt		Use a concentration of 5 µg/ml.

Target

Function	Receptor involved in the costimulatory signal essential for T-lymphocyte proliferation and interleukin-2 production, by binding CD28 or CTLA-4. May play a critical role in the early events of T-cell activation and costimulation of naive T-cells, such as deciding between immunity and anergy that is made by T-cells within 24 hours after activation. Isoform 2 interferes with the formation of CD86 clusters, and thus acts as a negative regulator of T-cell activation.
Tissue specificity	Expressed by activated B-lymphocytes and monocytes.
Sequence similarities	Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Post-translational modifications	Polyubiquitinated; which is promoted by MARCH8 and results in endocytosis and lysosomal degradation.
Cellular localization	Membrane.

Images



Immunohistochemistry (Frozen sections) - Anti-CD86 antibody [OX48] - BSA and Azide free (ab244583)

This data was developed using the same antibody clone in a different buffer formulation containing PBS and sodium azide (**ab238468**)

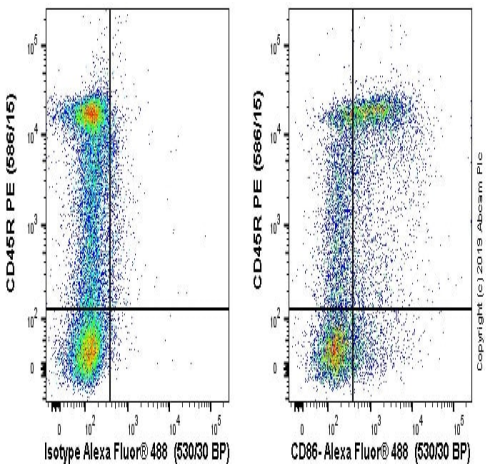
IHC image of CD86 staining in a section of frozen normal rat spleen*.

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 **ab238468** at 5µg/ml. The section was then incubated with **ab150119** (Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor®647, 1/1000)) (shown in red) for 1 hour at room temperature. 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.

*Tissue obtained from Charles River.



Flow Cytometry - Anti-CD86 antibody [OX48] - BSA and Azide free (ab244583)

This data was generating using the same clone in a different formulation (**ab238468**).

Lewis rat splenocytes stained with **ab238468** (right) or mouse IgG1κ (left). Lewis rat splenocytes were incubated for 30 min on ice in 10% rat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody (**ab238468**) or mouse IgG1κ Isotype (**ab170190**) ($1x10^6$ in 100µl at 5 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 at 4°C. The cells were simultaneously stained with CD45R PE antibody.

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

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