abcam

Product datasheet

Anti-CD86 antibody [OX48] ab238468

3 Images

Overview

Product name	Anti-CD86 antibody [OX48]
Description	Mouse monoclonal [OX48] to CD86
Host species	Mouse
Tested applications	**Suitable for:** IHC-Fr, Flow Cyt
Species reactivity	**Reacts with:** Rat
Immunogen	Tissue, cells or virus within Rat CD86. The exact sequence is proprietary.
Positive control	IHC-Fr: Rat spleen tissue. Flow Cyt: Lewis rat splenocytes.
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.

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: 0.02% Sodium azide Constituent: PBS
Purity	Protein G purified
Purification notes	Purified from TCS.
Clonality	Monoclonal
Clone number	OX48
Isotype	IgG1
Light chain type	kappa

Applications

Our Abpromise guarantee covers the use of **ab238468** 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.

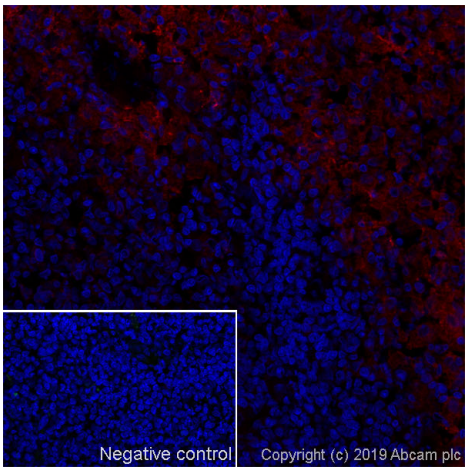
Tissue specificity
Expressed by activated B-lymphocytes and monocytes.

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] (ab238468)

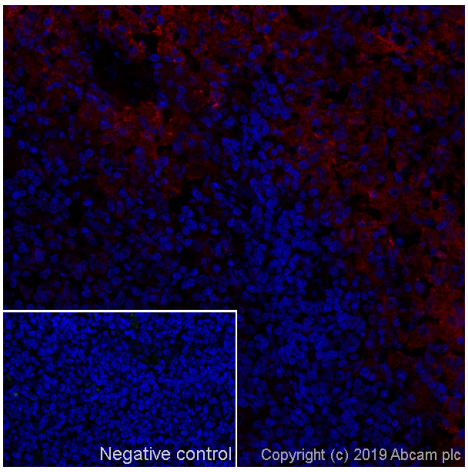
IHC image of CD134/OX40L receptor staining in a section of frozen normal rat spleen*.

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.



Immunohistochemistry (Frozen sections) - Anti-CD86 antibody [OX48] (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®.

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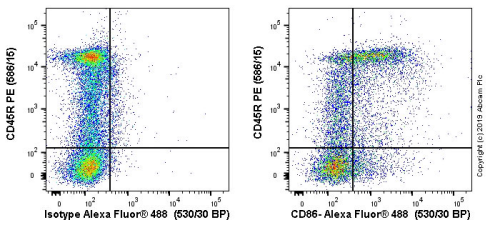

Flow Cytometry - Anti-CD86 antibody [OX48] (ab238468)

Lab

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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