

# CD134 (OX40) Monoclonal Antibody (OX-86), eBioscience

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	OX-86
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_467476

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	9 Publications
Neutralization (Neu)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	2 Publications

## Product Specific Information

**Description:** The OX-86 monoclonal antibody reacts with mouse CD134, also known as OX40. A member of the TNF receptor superfamily, CD134 is a 50 kDa type I membrane glycoprotein expressed by activated mouse T lymphocytes. Rat CD134 was initially identified as an activation marker only on activated CD4+ T cells. In contrast, mouse CD134 is expressed by both activated CD4+ and CD8+ T cells. The interaction of CD134 with CD252 (OX40 ligand) has been implicated in T cell-dependent humoral responses, regulation of primary T cell expansion, survival of T cells, size of the memory T cell pool, and regulation of tolerance in the CD4+ T cell compartment.

**Applications Reported:** The OX-86 antibody has been reported for use in flow cytometric analysis, immunoblotting (WB), and immunohistochemical staining of frozen tissue sections. It does not block binding of CD134 to its ligand, but has been reported for use in functional assays. Please use Functional Grade purified OX-86 in functional assays.

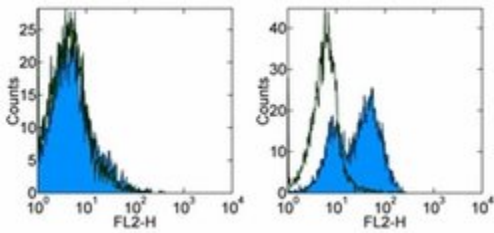
**Applications Tested:** The OX-86 antibody has been tested by flow cytometric analysis of activated mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD134 (OX40) Monoclonal Antibody (OX-86), eBioscience



### CD134 (OX40) Antibody (14-1341-82) in Flow

Staining of 3-day unstimulated (left) and 3-day Con A-stimulated (right) BALB/c splenocytes with 0.25 µg of Rat IgG1 K Isotype Control Purified (Product # 14-4301-82) (open histogram) or 0.25 µg of Anti-Mouse CD134 (OX40) Purified (filled histogram) followed by Anti-Rat IgG Biotin (Product # 13-4813-85) and Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

## 13 References

### Immunohistochemistry (Frozen) (2)

#### Cancer research

#### Adenovirus vector-mediated in vivo gene transfer of OX40 ligand to tumor cells enhances antitumor immunity of tumor-bearing hosts.

Authors: Andarini S, Kikuchi T, Nukiwa M, Pradono P, Suzuki T, Ohkouchi S, Inoue A, Maemondo M, Ishii N, Saijo Y, Sugamura K, Nukiwa T

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2004

#### Journal of immunology (Baltimore, Md. : 1950)

#### Regulation of T cell activation in vitro and in vivo by targeting the OX40-OX40 ligand interaction: amelioration of ongoing inflammatory bowel disease with an OX40-IgG fusion protein, but not with an OX40 ligand-IgG fusion protein.

Authors: Higgins LM, McDonald SA, Whittle N, Crockett N, Shields JG, MacDonald TT

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
1999

### Flow Cytometry (9)

#### Immunity

#### NKT cell-plasmacytoid dendritic cell cooperation via OX40 controls viral infection in a tissue-specific manner.

"14-1341 was used in Flow cytometry/Cell sorting to investigate how pDCs act as an essential partner of iNKT cells for mounting an efficient, nondeleterious antiviral response in peripheral tissue."

Authors: Diana J, Griseri T, Lagaye S, Beaudoin L, Autrusseau E, Gautron AS, Tomkiewicz C, Herbelin A, Barouki R, von Herrath M, Dalod M, Lehuen A

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2009

#### Journal of controlled release : official journal of the Controlled Release Society

#### Transcutaneous vaccination via laser microporation.

"14-1341 was used in Flow cytometry/Cell sorting to investigate the potential of transcutaneous immunisation via laser-generated micropores for induction of specific immune responses."

Authors: Weiss R, Hessenberger M, Kitzmüller S, Bach D, Weinberger EE, Krautgartner WD, Hauser-Kronberger C, Malissen B, Boehler C, Kalia YN, Thalhamer J, Scheibelhofer S

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2012

[View more Flow references on thermofisher.com](#)

### More applications with references on thermofisher.com

## FN (2)

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