

# CD134 (OX40) Monoclonal Antibody (OX-86), Super Bright 780, eBioscience

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Super Bright 780, eBioscience
Class	Monoclonal
Type	Antibody
Clone	OX-86
Conjugate	Super Bright 780
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2734876

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	-

## 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.

**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 1.0 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.

Super Bright 780 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for

Super Bright Staining Buffer for more information.

In some experiments, we have observed that compensation values for Super Bright 780-conjugated antibodies are higher in the violet 450/50 channel when using UltraComp eBeads microspheres (Product # 01-2222-42) as compared to single-color stained cells. In such circumstances, we would recommend setting compensation with cells. We have also observed this in some experiments using AbC Total Antibody Compensation beads (Product # A10497).

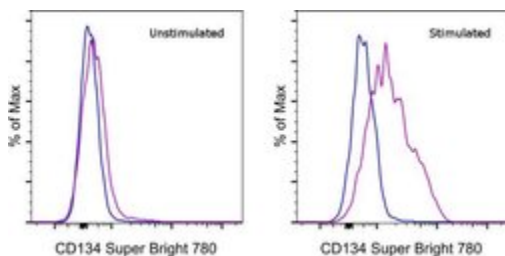
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 780 nm; Laser: Violet Laser.

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

## Product Images For CD134 (OX40) Monoclonal Antibody (OX-86), Super Bright 780, eBioscience



### CD134 (OX40) Antibody (78-1341-82) in Flow

Staining of unstimulated (left) or 3-day Con A (00-4978-93)-stimulated C57Bl/6 mouse splenocytes (right) with 1.0  $\mu$ g of Rat IgG1 kappa Isotype Control, Super Bright 780 (Product # 78-4301-82) (blue histogram) or 1.0  $\mu$ g of CD134 (OX40) Monoclonal Antibody, Super Bright 780 (purple histogram). Total viable cells, as determined by Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), were used for analysis.

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