

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
Excitation/Emission Max	413/780 nm
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	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.

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 10⁵ to 10⁸ 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).

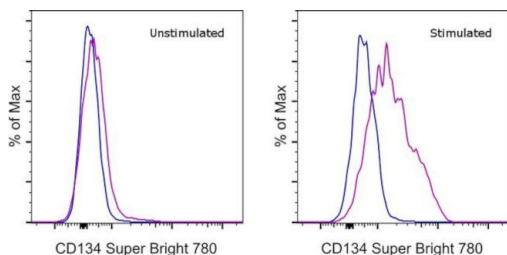
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ 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 μ g of Rat IgG1 kappa Isotype Control, Super Bright 780 (Product # 78-4301-82) (blue histogram) or 1.0 μ 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.

2 References

Flow Cytometry (2)

Oncoimmunology

Bendamustine with total body irradiation conditioning yields tolerant T-cells while preserving T-cell-dependent graft-versus-leukemia.

"Published figure using CD134 (OX40) monoclonal antibody (Product # 78-1341-82) in Flow Cytometry"

Authors: Stokes J, Hoffman EA, Molina MS, Kummert N, Simpson RJ, Zeng Y, Katsanis E

Year
2021

Immunity

Notch4 signaling limits regulatory T-cell-mediated tissue repair and promotes severe lung inflammation in viral infections.

"Published figure using CD134 (OX40) monoclonal antibody (Product # 78-1341-82) in Flow Cytometry"

Authors: Harb H, Benamar M, Lai PS, Contini P, Griffith JW, Crestani E, Schmitz-Abe K, Chen Q, Fong J, Marri L, Filaci G, Del Zotto G, Pishesha N, Kolifirath S, Broggi A, Ghosh S, Gelmez MY, Oktelik FB, Cetin EA, Kiykim A, Kose M, Wang Z, Cui Y, Yu XG, Li JZ, Berra L, Stephen-Victor E, Charbonnier LM, Zanon I, Ploegh H, Deniz G, De Palma R, Chatila TA

Year
2021

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