

IL-4 Monoclonal Antibody (OX81), eFluor™ 660, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Rat
Published Species	Rat
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor™ 660, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	OX81
Conjugate	eFluor™ 660
Excitation/Emission Max	651/668 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11149497

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	1 Publication

Product Specific Information

Description: This OX81 monoclonal antibody reacts with rat interleukin (IL)-4. Also known as BCDF, BCGF-1 and BSF-1, IL-4 is secreted by activated Th2 and natural killer T cells. This cytokine is also produced by Th1 and mast cells albeit to a lesser extent. IL-4 is species-specific and promotes proliferation and differentiation of B cells. IL-4, in conjunction with other signals such as CD40, induces Ig isotype switching of B cells and the upregulation of MHC class II and CD23.

The OX81 antibody has been reported to exhibit neutralizing activity.

Applications Reported: This OX81 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

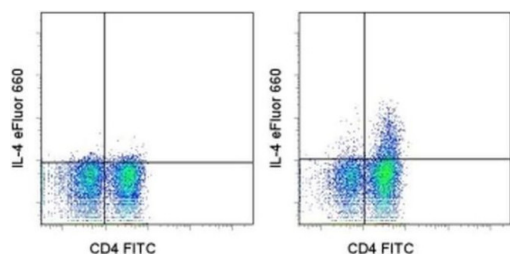
Applications Tested: This OX81 antibody has been tested by intracellular flow cytometric analysis of activated rat splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 668 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IL-4 Monoclonal Antibody (OX81), eFluor™ 660, eBioscience™



IL-4 Antibody (50-7045-82) in Flow

Rat splenocytes were cultured with Anti-Rat CD3 Functional Grade Purified (Product # 16-0030-85), Anti-Rat CD28 Functional Grade Purified (Product # 16-0280-81), Rat IL-2 Recombinant Protein (Product # 14-8020), and Rat IL-4 Recombinant Protein (Product # 14-8040) for 2 days followed by culture for an additional 3 days in Rat IL-2 and Rat IL-4 (right). The cells were then unstimulated (left) or stimulated (right) for 4 hours with the Cell Stimulation Cocktail (plus protein transport inhibitors) (Product # 00-4975-03) prior to fixation and permeabilization (Product # 88-8823-88). Finally, the cells were stained with Anti-Rat CD4 FITC (Product # 11-0040-82) and 0.25 µg of Anti-Rat IL-4 PE. Viable cells in the lymphocyte gate, as determined by staining with Fixable Viability Dye eFluor® 450 (Product # 65-0863-14), were used for analysis.

1 Reference

Flow Cytometry (1)

Scientific reports	Year
Chronic recurrent dehydration associated with periodic water intake exacerbates hypertension and promotes renal damage in male spontaneously hypertensive rats.	2016
"50-7045 was used in Flow cytometry/Cell sorting to show that recurrent dehydration associated with chronic periodic drinking hastens the progression of chronic kidney disease and hypertension in rats."	Species
Authors: Hilliard LM, Colafella KM, Bulmer LL, Puellas VG, Singh RR, Ow CP, Gaspari T, Drummond GR, Evans RG, Vinh A, Denton KM	Rat

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