

c-Rel Monoclonal Antibody (1RELAH5),
eFluor™ 660, eBioscience™

Catalog Number50-6111-80

Product data sheet

Details		Species Reactivity	
Size	25 µg	Species reactivity	Mouse
Host/Isotope	Rat / IgG2a, kappa	Published species	Mouse, Not Applicable
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	0.06 µg/test
Clone	1RELAH5	Published Applications	
Conjugate	eFluor™ 660	Flow Cytometry (Flow)	See 2 publications below
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
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!		

Product specific information

Description: The 1RELAH5 monoclonal antibody reacts with mouse c-Rel. c-Rel is a 65 kDa hematopoietic lineage-restricted member of the NF-κB family of transcription factors. In the thymus, c-Rel is upregulated in regulatory T cells (Treg) when compared to other CD4+ thymocytes. c-Rel is believed to play a critical role in thymic Treg (nTreg) development, but is not necessary for TGF beta-mediated T reg (iTreg) differentiation. C-Rel is also involved in proliferation and survival in mature T cells. Applications Reported: This 1RELAH5 antibody has been reported for use in intracellular staining followed by flow cytometric analysis. Applications Tested: This 1RELAH5 antibody has been tested by intracellular staining and flow cytometric analysis of mouse thymocytes using the Foxp3 Fixation/Permeabilization Buffers (cat. 00-5521) and protocol. This can be used at less than or equal to 0.06 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 10^5 to 10^8 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.

Background/Target Information

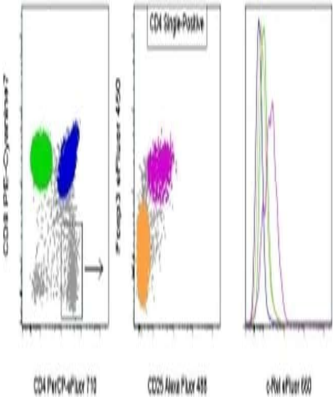
The REL gene encodes c-Rel, a transcription factor that is a member of the Rel/NFκB family, which also includes RELA, RELB (604758), NFκB1, and NFκB2. These proteins are related through a highly conserved N-terminal region termed the 'Rel domain,' which is responsible for DNA binding, dimerization, nuclear localization, and binding to the NFκB inhibitor (Belguise and Sonenshein, 2007).

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c-Rel Antibody (50-6111-80) in Flow

Mouse thymocytes were stained with Anti-Mouse CD4, Anti-Mouse CD8 and Anti-Mouse CD25, then fixed and permeabilized with Foxp3 Staining Buffer, and stained intracellularly for Anti-Mouse Foxp3 and Anti-Mouse c-Rel eFluor® 660. Anti-Mouse cRel eFluor® 660 staining (right) was compared in CD8+CD4. (left, green), CD4+CD8+ (left, blue), CD4+CD8-CD25-Foxp3. (center, orange), and CD4+CD8-CD25+Foxp3+ (center, pink) populations.

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2 Flow Cytometry References

Species / Dilution	Summary
Mouse / Not Cited	50-6111 was used in Flow cytometry/Cell sorting to establish that quantitatively distinct Ca2+ signals triggered by variations in the extent of B cell receptor engagement dynamically regulate these transitions by controlling nuclear factor B (NF-B), NFAT, and mTORC1 activity. Cell reports (2020; 31:) "BCR-Induced Ca²⁺ Signals Dynamically Tune Survival, Metabolic Reprogramming, and Proliferation of Naive B Cells." Author(s):Berry CT,Liu X,Myles A,Nandi S,Chen YH,Hershberg U,Brodsky IE,Cancro MP,Lengner CJ,May MJ,Freedman BD PubMed Article URL:http://dx.doi.org/10.1016/j.celrep.2020.03.038
Mouse / Not Cited	50-6111-80 was used in Flow Cytometry to provide a mechanistic explanation of how dysregulation of this bi-stable circuit might result in pathologic B cell population phenotypes and thus offer new avenues for diagnostic stratification and treatment. Immunity (2019; 50: 616) "A Regulatory Circuit Controlling the Dynamics of NFB cRel Transitions B Cells from Proliferation to Plasma Cell Differentiation." Author(s):Roy K,Mitchell S,Liu Y,Ohta S,Lin YS,Metzig MO,Nutt SL,Hoffmann A PubMed Article URL:http://dx.doi.org/10.1016/j.immuni.2019.02.004