EOMES Monoclonal Antibody (Dan11mag), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	Dan11mag
Conjugate	PE-Cyanine7
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573454

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	12 Publications

Product Specific Information

Description: This Dan11mag antibody recognizes Eomesodermin (EOMES), also known as T-box brain 2 (TBR2). Eomes is a T-box transcription factor that is highly homologous to T-bet, which is essential during trophoblast development and gastrulation in most vertebrates. In the immune system, Eomes controls the differentiation of effector and memory CD8+ T cells, as well as natural killer (NK) cells. Expression of Eomes in these cells correlates with high expression of CD122, the common beta-chain of the IL-2R and IL-15R.

Applications Reported: This Dan11mag antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This Dan11mag antibody has been tested by intracellular staining and flow cytometric analysis of mouse splenocytes using the Foxp3/Transcription Factor Buffer Set (cat 00-5523) and protocol. Please see Best Protocols Section (Staining intracellular Antigens for Flow Cytometry) for staining protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This can be used at less than or equal to 0.25 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.

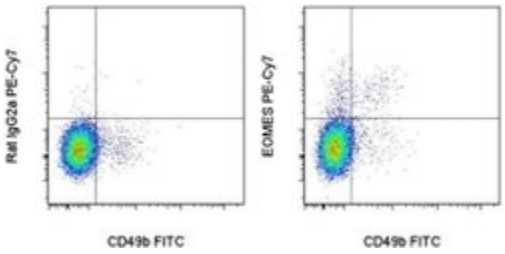
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 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: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For EOMES Monoclonal Antibody (Dan11mag), PE-Cyanine7, eBioscience™



EOMES Antibody (25-4875-82) in Flow
Staining of C57Bl/6 splenocytes with Anti-Mouse CD49b (Integrin alpha 2) FITC (Product # 11-5971-82) followed by fixation and permeabilization using the Foxp3 /Transcription Factor Buffer Set (Product # 00-5523-00). Cells were then intracellularly stained with 0.125 µg of Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) (left) or 0.125 µg of Anti-Mouse EOMES PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

12 References

Flow Cytometry (12)

Wellcome open research

Conventional NK cells and ILC1 are partially ablated in the livers of Ncr1 ^{iCre}Tbx21 $^{fl/fl}$ mice.

"25-4875 was used in Flow cytometry/Cell sorting to examine the role of Tbet-dependent type I innate lymphoid cells in the murine liver."

Authors: Cuff AO,Male V

Species
Mouse

Dilution
Not Cited

Year
2021

Immunity

CD4$^+$ T Cell Help Is Required for the Formation of a Cytolytic CD8$^+$ T Cell Subset that Protects against Chronic Infection and Cancer.

"25-4875 was used in Flow cytometry/Cell sorting to use single-cell RNA sequencing, we show that CD8+ T cells responding to chronic infection were more heterogeneous than previously appreciated."

Authors: Zander R,Schauder D,Xin G,Nguyen C,Wu X,Zajac A,Cui W

Species
Mouse

Dilution
Not Cited

Year
2019

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