

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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

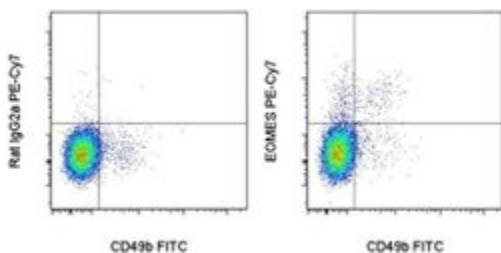
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L 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 μ m 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 Fc γ 3 /Transcription Factor Buffer Set (Product # 00-5523-00). Cells were then intracellularly stained with 0.125 μ g of Rat IgG2a K Isotype Control PE-Cyanine7 (Product # 25-4321-82) (left) or 0.125 μ g of Anti-Mouse EOMES PE-Cyanine7 (right). Cells in the lymphocyte gate were used for analysis.

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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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More applications with references on thermofisher.com

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