

EOMES Monoclonal Antibody (Dan11mag), Alexa Fluor 488, 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), Alexa Fluor 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	Dan11mag
Conjugate	Alexa Fluor® 488
Form	Liquid
Concentration	0.5 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_10854265

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	12 Publications
Immunocytochemistry (ICC/IF)	-	7 Publications
Flow Cytometry (Flow)	0.5 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.

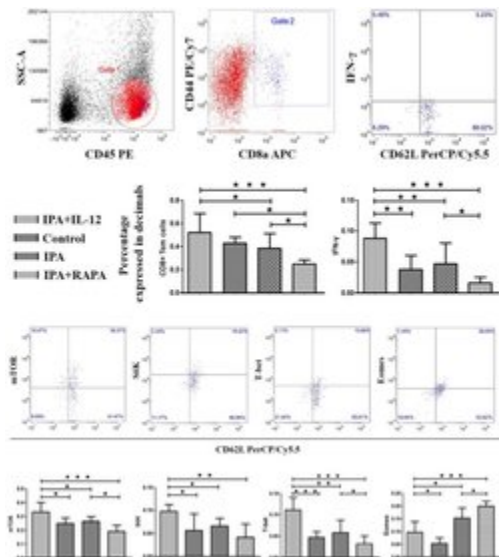
Applications Tested: This Dan11mag antibody has been tested by intracellular staining and flow cytometric analysis of mouse splenocytes using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5521) and protocol. Please see Best Protocols Section (Staining intracellular Antigens for Flow Cytometry) for staining protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This can be used at less than or equal to 0.5 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.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

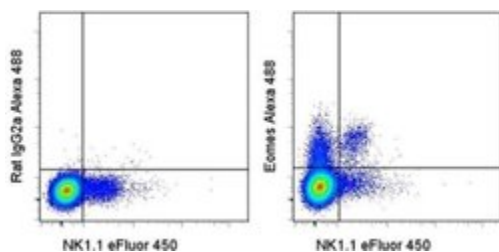
Advanced Verification Data



EOMES Antibody (53-4875-82)

Figure 2 IL-12 can enhance CD8 + Tem cells differentiation through T-bet and Eomes influenced by mTOR activated. The peripheral blood mononuclear cells (PBMC) obtained from IPA model mice, IPA treated with IL-12 or rapamycin and control animals were detected using flow cytometry after 7 days *Aspergillus fumigatus* inhaled by the nose. The side scatter (SSC) and CD8a were applied to gate CD8 + T lymphocytes, CD44 + CD45 + CD62 +/- represented effective memory T cell (Tem). And then the TEMs were stained with IFN-gamma, mTOR, S6K, T-BET, EOMES. The data were presented as mean +/- S.D. *: p < 0.05; **: p < 0.01; ***: p < 0.001. Cell treatment validation info.

Product Images For EOMES Monoclonal Antibody (Dan11mag), Alexa Fluor 488, eBioscience™



EOMES Antibody (53-4875-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Mouse NK1-1 eFluor® 450 (Product # 48-5941-82) followed by intracellular staining with 0.25 µg of Rat IgG2a K Isotype Control Alexa Fluor® 488 (Product # 53-4321-80) (left) or 0.25 µg of Anti-Mouse EOMES Alexa Fluor® 488 (right) using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Cells in the lymphocyte gate were used for analysis.

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31 References

Immunohistochemistry (12)

Nature communications

LPA signaling acts as a cell-extrinsic mechanism to initiate cilia disassembly and promote neurogenesis.

"Published figure using EOMES monoclonal antibody (Product # 53-4875-82) in Immunohistochemistry"

Authors: Hu HB, Song ZQ, Song GP, Li S, Tu HQ, Wu M, Zhang YC, Yuan JF, Li TT, Li PY, Xu YL, Shen XL, Han QY, Li AL, Zhou T, Chun J, Zhang XM, Li HY

Species
Not Applicable

Dilution
Not Cited

Year
2021

Journal of neurodevelopmental disorders

Developmental exposure to diesel exhaust upregulates transcription factor expression, decreases hippocampal neurogenesis, and alters cortical lamina organization: relevance to neurodevelopmental disorders.

"Published figure using EOMES monoclonal antibody (Product # 53-4875-82) in Immunohistochemistry"

Authors: Cole TB, Chang YC, Dao K, Daza R, Hevner R, Costa LG

Species
Not Applicable

Dilution
Not Cited

Year
2020

[View more IHC references on thermofisher.com](#)

Immunocytochemistry (7)

Nature

Centrosome anchoring regulates progenitor properties and cortical formation.

"Published figure using EOMES monoclonal antibody (Product # 53-4875-82) in Immunocytochemistry"

Authors: Shao W, Yang J, He M, Yu XY, Lee CH, Yang Z, Joyner AL, Anderson KV, Zhang J, Tsou MB, Shi H, Shi SH

Species
Not Applicable

Dilution
Not Cited

Year
2020

Molecular autism

Loss of the neurodevelopmental disease-associated gene miR-146a impairs neural progenitor differentiation and causes learning and memory deficits.

"Published figure using EOMES monoclonal antibody (Product # 53-4875-82) in Immunocytochemistry"

Authors: Fregeac J, Moriceau S, Poli A, Nguyen LS, Oury F, Colleaux L

Species
Not Applicable

Dilution
Not Cited

Year
2020

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Flow (12)

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