

Anti-Mouse EOMES Purified

Catalog Number: 14-4875

Also known as: Eomesodermin, TBR2

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

 **Contents:** Anti-Mouse EOMES Purified
Catalog Number: 14-4875
Clone: Dan11mag
Concentration: 0.5 mg/mL
Host/Isotype: Rat IgG2a, kappa



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

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 and western blotting. (Fluorochrome conjugated Dan11mag is recommended for use in intracellular flow cytometry.)

Applications Tested

This Dan11mag antibody has been tested by intracellular staining followed by flow cytometric and/or western blotting at 2=10 ug/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Weinreich MA, Odumade OA, Jameson SC, Hogquist KA T cells expressing the transcription factor PLZF regulate the development of memory-like CD8+ T cells. Nat Immunol. 2010 Aug;11(8):709-16 (**Dan11mag**, IC flow, PubMed)

Marshall HD, Prince AL, Berg LJ, Welsh RM. IFN-alpha beta and self-MHC divert CD8 T cells into a distinct differentiation pathway characterized by rapid acquisition of effector functions. J Immunol. 2010 Aug 1;185(3):1419-28. (**Dan11mag**, IC flow, PubMed)

Intlekofer AM, Banerjee A, Takemoto N, Gordon SM, Dejong CS, Shin H, Hunter CA, Wherry EJ, Lindsten T, Reiner SL. Anomalous type 17 response to viral infection by CD8+ T cells lacking T-bet and eomesodermin. Science. 2008 Jul 18;321(5887):408-11.

Intlekofer AM, Takemoto N, Wherry EJ, Longworth SA, Northrup JT, Palanivel VR, Mullen AC, Gasink CR, Kaech SM, Miller JD, Gapin L, Ryan K, Russ AP, Lindsten T, Orange JS, Goldrath AW, Ahmed R, Reiner SL. Effector and memory CD8+ T cell fate coupled by T-bet and eomesodermin. Nat Immunol. 2005 Dec;6(12):1236-44.

Pearce EL, Mullen AC, Martins GA, Krawczyk CM, Hutchins AS, Zediak VP, Banica M, DiCioccio CB, Gross DA, Mao CA, Shen H, Cereb N, Yang SY, Lindsten T, Rossant J, Hunter CA, Reiner SL. Control of effector CD8+ T cell function by the transcription factor Eomesodermin. Science. 2003 Nov 7;302(5647):1041-3.

Russ AP, Wattler S, Colledge WH, Aparicio SA, Carlton MB, Pearce JJ, Barton SC, Surani MA, Ryan K, Nehls MC, Wilson V, Evans MJ. Eomesodermin is required for mouse trophoblast development and mesoderm formation. Nature. 2000 Mar 2;404(6773):95-9.

Ciruna BG, Rossant J. Expression of the T-box gene Eomesodermin during early mouse development. Mech Dev. 1999 Mar;81(1-2):199-203.

Not for further distribution without written consent.

Copyright © 2000-2012 eBioscience, Inc.

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.ebioscience.com •
info@ebioscience.com

Anti-Mouse EOMES Purified

Catalog Number: 14-4875

Also known as: Eomesodermin, TBR2

RUO: For Research Use Only. Not for use in diagnostic procedures.

Hancock SN, Agulnik SI, Silver LM, Papaioannou VE. Mapping and expression analysis of the mouse ortholog of Xenopus Eomesodermin. Mech Dev. 1999 Mar;81(1-2):205-8.

Ryan K, Garrett N, Mitchell A, Gurdon JB. Eomesodermin, a key early gene in Xenopus mesoderm differentiation. Cell. 1996 Dec 13;87(6):989-1000.

Related Products

14-4321 Rat IgG2a K Isotype Control Purified (eBR2a)