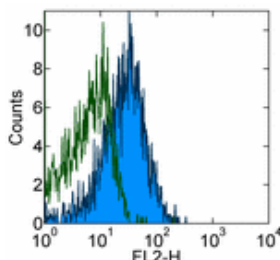


Anti-Human CD270 (HVEM) Purified

Catalog Number: 14-5969

Also Known As: herpes virus entry mediator, TNFRSF14, LIGHTR

RUO: For Research Use Only



Staining of normal human peripheral blood cells with 0.125 µg of Mouse IgG1 κ Isotype Control Purified (cat. 14-4714) (open histogram) or 0.125 µg of Anti-Human CD270 (HVEM) Purified (filled histogram) followed by Anti-Mouse IgG Biotin (cat. 13-4013) and Streptavidin PE (cat. 12-4317). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD270 (HVEM) Purified

REF Catalog Number: 14-5969

Clone: eBioHVEM-122

Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgG1

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



Caution, contains Azide

Description

The eBioHVEM-122 antibody reacts with Herpes Virus Entry Mediator (HVEM, TR2), a member of the TNF-receptor superfamily. HVEM is found on most cell types, including T cells, B cells, monocytes, neutrophils and dendritic cells. This receptor was identified as a cellular mediator of herpes simplex virus (HSV) entry. Binding of HSV viral envelope glycoprotein D (gD) to this receptor protein has been shown to be part of the viral entry mechanism. The cytoplasmic region of HVEM was found to bind to several TRAF family members, which may mediate the signal transduction pathways that activate the immune response. Recent studies have shown HVEM as a unique ligand for BTLA (B and T lymphocyte attenuator). The conservation of the BTLA-HVEM interaction between mouse and human suggests that this system is an important pathway regulating lymphocyte activation and/or homeostasis in the immune response.

Applications Reported

The eBioHVEM-122 antibody has been reported for use in flow cytometric analysis and immunoblotting.

Applications Tested

The eBioHVEM-122 antibody has been tested by flow cytometric analysis of human peripheral blood leukocytes. 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.

References

Jung HW, La SJ, Kim JY, Heo SK, Kim JY, Wang S, Kim KK, Lee KM, Cho HR, Lee HW, Kwon B, Kim BS, Kwon BS. High levels of soluble herpes virus entry mediator in sera of patients with allergic and autoimmune diseases. *Exp Mol Med*. 2003 Dec 31;35(6):501-8. (eBioHVEM-122, FC, PubMed)

Heo SK, Ju SA, Lee SC, Park SM, Choe SY, Kwon B, Kwon BS, Kim BS. LIGHT enhances the bactericidal activity of human monocytes and neutrophils via HVEM. *J Leukoc Biol*. 2006 Feb;79(2):330-8. (PubMed)

Sedy JR, Gavrieli M, Potter KG, Hurchla MA, Lindsley RC, Hildner K, Scheu S, Pfeffer K, Ware CF, Murphy TL, Murphy KM. B and T lymphocyte attenuator regulates T cell activation through interaction with herpesvirus entry mediator. *Nat Immunol*. 2005 Jan;6(1):90-8. (PubMed)

Morel Y, Schiano de Colella JM, Harrop J, Deen KC, Holmes SD, Wattam TA, Khandekar SS, Truneh A, Sweet RW, Gastaut JA, Olive D, Costello RT. Reciprocal expression of the TNF family receptor herpes virus entry mediator and its ligand LIGHT on activated T cells: LIGHT down-regulates its own receptor. *J Immunol*. 2000 Oct 15;165(8):4397-404. (PubMed)

Kwon BS, Tan KB, Ni J, Oh KO, Lee ZH, Kim KK, Kim YJ, Wang S, Gentz R, Yu GL, Harrop J, Lyn SD, Silverman C, Porter TG, Truneh A, Young PR. A newly

identified member of the tumor necrosis factor receptor superfamily with a wide tissue distribution and involvement in lymphocyte activation.
J Biol Chem. 1997 May 30;272(22):14272-6. (PubMed)

Related Products

- 11-4011 Anti-Mouse IgG FITC
- 11-4317 Streptavidin FITC
- 12-4317 Streptavidin PE
- 13-4013 Anti-Mouse IgG Biotin (Polyclonal)
- 13-5979 Anti-Human CD272 (BTLA) Biotin (MIH26)
- 14-4714 Mouse IgG1 K Isotype Control Purified
- 14-5979 Anti-Human CD272 (BTLA) Purified (MIH26)
- 16-5979 Anti-Human CD272 (BTLA) Functional Grade Purified (MIH26)
- 17-4317 Streptavidin APC

Not for further distribution without written consent.

Copyright © 2000-2010 eBioscience, Inc.

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