
Anti-Human CD48 Functional Grade Purified

Catalog Number: 16-0489

Also Known As: BCM1, BCM 1, B-cell membrane protein, SLAMF2, SLAM F2, BLAST1

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

Product Information

Contents: Anti-Human CD48 Functional Grade Purified

Formulation: aqueous buffer, no sodium azide

 **Catalog Number:** 16-0489

 **Temperature Limitation:** Store at 2-8°C.

Clone: eBio156-4H9 (156-4H9)

 **Batch Code:** Refer to Vial

Concentration: 1 mg/mL

 **Use By:** Refer to Vial

Host/Isotype: Mouse IgG1

Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Description

The eBio156-4H9 monoclonal antibody reacts with the human CD48 antigen, also known as B cell activation marker 1, SLAM family member 2, Blast-1 (human), and OX-45 (rat). CD48, a member of the SLAM family and Ig superfamily, is a 45 kDa GPI-linked glycoprotein expressed on the majority of hematopoietic cells. CD2 is the low affinity ligand for CD48. Recent publications have reported differential expression in mice of members of the SLAM family including CD48, CD150, and CD244 among functionally distinct bone marrow hematopoietic progenitors providing a useful tool for prediction of the primitiveness of hematopoietic progenitors. Expression of CD48 in hematopoietic cells is found on many leukocytes with little to none on granulocytes and absent on platelets and erythrocytes. Expression increases on B cells with activation.

Applications Reported

This eBio156-4H9 (156-4H9) antibody has been reported for use in flow cytometric analysis and functional assay.

Applications Tested

This eBio156-4H9 (156-4H9) antibody has been tested by flow cytometric analysis of normal human peripheral blood cells. 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.

References

Yokoyama S, Staunton D, Fisher R, Amiot M, Fortin JJ, Thorley-Lawson DA. Expression of the Blast-1 activation/adhesion molecule and its identification as CD48. J Immunol. 1991 Apr 1;146(7):2192-200.

Gonzalez-Alvaro I, Dominguez-Jimenez C, Ortiz AM, Nunez-Gonzalez V, Roda-Navarro P, Fernandez-Ruiz E, Sancho D, Sanchez-Madrid F. Interleukin-15 and interferon-gamma participate in the cross-talk between natural killer and monocytic cells required for tumour necrosis factor production. Arthritis Res Ther. 2006;8(4):R88. (156-4H9, FC, PubMed)

Stonehouse TJ, Woodhead VE, Herridge PS, Ashrafi H, George M, Chain BM, Katz DR. Molecular characterization of U937-dependent T-cell co-stimulation. Immunology. 1999 Jan;96(1):35-47. (156-4H9, FC, PubMed)

Related Products

11-4011 Anti-Mouse IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4013 Anti-Mouse IgG Biotin (Polyclonal)

16-0481 Anti-Mouse CD48 Functional Grade Purified (HM48-1)

16-4714 Mouse IgG1 K Isotype Control Functional Grade Purified (P3.6.2.1)

17-4317 Streptavidin APC

