

CD48 Monoclonal Antibody (eBio156-4H9 (156-4H9)), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	eBio156-4H9 (156-4H9)
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_891466

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	1 Publication
Neutralization (Neu)	-	1 Publication
In vitro Assay (IV)	-	1 Publication

Product Specific Information

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.

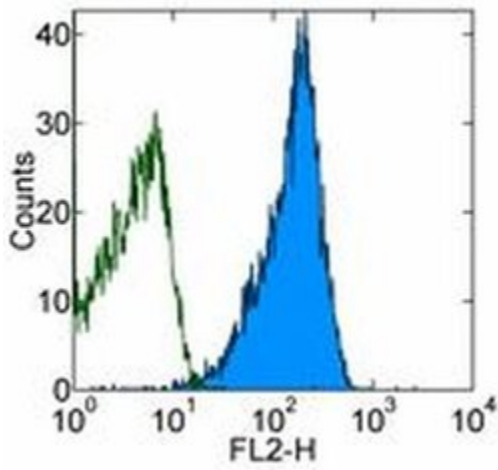
Applications Tested: This eBio156-4H9 (156-4H9) antibody has been tested by flow cytometric analysis of human peripheral blood cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD48 Monoclonal Antibody (eBio156-4H9 (156-4H9)), eBioscience™



CD48 Antibody (14-0489-82) in Flow

Staining of normal human peripheral blood mononuclear cells with 0.5 µg of Mouse IgG1 kappa Isotype Control Purified (Product # 14-4714-82) (open histogram) or 0.5 µg of Anti-Human CD48 Purified (filled histogram) followed by F(ab')₂ Anti-Mouse IgG PE (Product # 12-4012). Cells in the lymphocyte gate were used for analysis.

3 References

Flow Cytometry (1)

The Journal of experimental medicine

WASH is required for the differentiation commitment of hematopoietic stem cells in a c-Myc-dependent manner.

"14-0489 was used in Flow cytometry/Cell sorting to show that conditional WASH deletion in the haematopoietic system causes defective blood production of the host."

Authors: Xia P,Wang S,Huang G,Zhu P,Li M,Ye B,Du Y,Fan Z

Species
Mouse

Dilution
Not Cited

Year
2014

Neutralization (1)

Rheumatology (Oxford, England)

IL-7Rlow memory CD8+ T cells are significantly elevated in patients with systemic lupus erythematosus.

"14-0489 was used in Blocking experiments to show that IL-7R memory CD8(+) T cells may contribute to tissue damage in lupus patients through 2B4-mediated cytotoxicity."

Authors: Kim JS,Cho BA,Sim JH,Shah K,Woo CM,Lee EB,Lee DS,Kang JS,Lee WJ,Park CG,Craft J,Kang I,Kim HR

Species
Human

Dilution
Not Cited

Year
2012

In vitro Assay (1)

Journal of immunology (Baltimore, Md. : 1950)

Cytomegalovirus-Induced Expression of CD244 after Liver Transplantation Is Associated with CD8+ T Cell Hyporesponsiveness to Alloantigen.

"14-0489 was used in in vitro experiments to suggest that CMV infection restrains CD8(+) T cell alloresponses after LTx."

Authors: de Mare-Bredemeijer EL,Shi XL,Mancham S,van Gent R,van der Heide-Mulder M,de Boer R,Heemskerk MH,de Jonge J,van der Laan LJ,Metselaar HJ,Kwekkeboom J

Species
Human

Dilution
Not Cited

Year
2015

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