# CD48 Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

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| **Product Name** | CD48, Monoclonal Antibody |
| **Full Product Name** | Mouse anti-Human CD48, PE Conjugated mAb |
| **Product Gene Name** | anti-CD48 antibody |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Clone Number** | 4A156-4H9 |
| **Host** | Mouse |
| **Species Reactivity** | Human |
| **Form/Format** | Phosphate-buffered solution, pH 7.4, containing 0.09% sodium azide |
| **Preparation and Storage** | Store at 4 degree C. DO NOT FREEZE. LIGHT SENSITIVE MATERIAL. |
| **Experimental Methods** | 1.Take 100mul peripheral blood anticoagulated by EDTA and add to the bottom of 5ml tube;<br>2.Add 10mul labeled antibody to the bottom of flow tube mixing with the whole blood, incubate for 20 minutes at room temperature away from light;<br>3.Add 2 ml1×RBC lysis buffer, incubate for 10 minutes away from light after mixing, dissolve red blood cells (recommended: RBC lysing Solution 10×);<br>4.Sample tube is set to 1000 rpm centrifugation for 5 minutes, discard the supernatant;<br>5.Add 2 ml PBS wash buffer to resuspend the cells, then1000 rpm centrifugation for 5 minutes, discard the supernatant;<br>6.Add 0.5 ml PBS wash buffer to resuspend the cells and detect by flow cytometry (sample should be determined on the day on the machine and can also be added fixation overnight at 4 degree C then measured).<br>[PBS wash buffer: PBS +1% FBS +0.1% NaN3]<br>[Cell fixation: 2% formaldehyde solution] |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-CD48 antibody** | Flow Cytometry (FC/FACS), Immunofluorescence (IF) |
| **Related Product Information for anti-CD48 antibody** | 4A156-4H9 reacts with blast-1, a 45 kDa GPI linked cell surface molecule. CD48 is expressed on peripheral blood lymphocytes, monocytes, or macrophages, but not on granulocytes and platelets nor on non-hematopoietic cells. CD48 binds to CD2 and plays a role as an accessory molecule in g/d T cell recognition and a/b T cell antigen recognition.* CD48 positive lymphocytes is decreased in patients with PNH (paroxysmal nocturnal haemoglobinuria) |
| **Product References and Citations for anti-CD48 antibody** | 1.Knapp, W., et al. (1989) Leucocyte Typing IV: White Cell Differentiation Antigens, Oxford University Press, New York. 2.Sandrin MS et al. (1993) J. Immunol. 151:4606. 3.GRiscelli-Bennaceur A et al. (1995) Blood 85:1354. 4.Flament, C et al. (1996) Hum. Immunol. 46:82. |
| **Other Notes** | Small volumes of anti-CD48 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CD48 purchase** | MBS8503419 is an antibody targeting CD48. Also known as Mouse anti-Human CD48, PE Conjugated mAb. Reactive in Human. Host: Mouse. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD48. It may not necessarily be applicable to this product.

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| **Protein Family** | CD48 antigen |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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