

**SM036RT****Monoclonal Antibody to CD48 - PE**

<b>Alternate names:</b>	B-lymphocyte activation marker BLAST-1, BCM1, BCM1 surface antigen, BLAST1, Leukocyte antigen MEM-102, MEM-102, TCT.1
<b>Quantity:</b>	25 Tests
<b>Background:</b>	CD48 is a glycosyl phosphatidyl inositol (GPI) anchored cell surface protein also known as Blast1, HuLy m3, BCM1 (in mouse), and OX45 (in rat). CD48 is strongly expressed on lymphocytes and monocytes and weakly on granulocytes but is absent on platelets, fibroblasts, epithelium and endothelium. CD48 is one of the markers for detecting the defects of GPI anchoring structure on patients with paroxysmal nocturnal hemoglobinuria (PNH) and serves as a low affinity ligand for CD2. The CD48 antigen is closely related to the activation antigen, Blast 1.
<b>Uniprot ID:</b>	<a href="#">P18181</a>
<b>NCBI:</b>	<a href="#">NP_031675.1</a>
<b>GeneID:</b>	<a href="#">12506</a>
<b>Host / Isotype:</b>	Rat / IgG2a
<b>Clone:</b>	OX-78
<b>Immunogen:</b>	Recombinant soluble mouse CD48. Spleen cells from immunised AO Rats immunised were fused with cells from the Rat Y3 myeloma cell line.
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction. <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with 0.25 ml distilled water
<b>Applications:</b>	<b>Flow Cytometry:</b> Use 10 µl of neat antibody to label 10e6 cells. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody labels thymocytes, B and T cells and macrophages. CD48 is a ligand for the mouse CD2 cell surface antigen. <b>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Prior to and following reconstitution store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Kato K, Koyanagi M, Okada H, Takanashi T, Wong YW, Williams AF, et al. CD48 is a counter-receptor for mouse CD2 and is involved in T cell activation. J Exp Med. 1992 Nov 1;176(5):1241-9. PubMed PMID: 1383383.