

## Monoclonal Antibody to CD152 / CTLA4 - PE

<b>Alternate names:</b>	CTLA-4, Cytotoxic T-lymphocyte protein 4, Cytotoxic T-lymphocyte-associated antigen 4
<b>Catalog No.:</b>	SM1217RT
<b>Quantity:</b>	25 Tests
<b>Background:</b>	CD152 is a 45kD glycoprotein, expressed normally as a disulphide-linked homodimer. It is expressed transiently on the surface of T cells following activation (peaking at 3 days), but is often present within the cytoplasm. CD152 is a ligand for CD80 and CD86, and is important in cellular interactions during the immune response.
<b>Uniprot ID:</b>	<a href="#">P16410</a>
<b>NCBI:</b>	<a href="#">NP_001032720.1</a>
<b>GeneID:</b>	<a href="#">1493</a>
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	BNI3
<b>Immunogen:</b>	Human CTLA-4/human IgG heavy chain fusion protein. Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3/X63-Ag8.653 myeloma cell line.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Purification:</b> Affinity Chromatography <b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative and 0.2% BSA as stabilizer. <b>Label:</b> PE – R. Phycoerythrin (RPE)
<b>Applications:</b>	<b>Flow Cytometry:</b> Use 20 µl of neat antibody to label 5x10 <sup>5</sup> cells in 100 µl (Membrane permeabilisation is required). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises the CD152 cell surface antigen, also known as CTLA-4 (cytotoxic T-lymphocyte associated antigen 4). <b>Species:</b> Human. Other species not tested.
<b>Storage:</b>	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 References:</b>	1. Linsley, P.S. et al. (1992) Co-expression and functional co-operation of CTLA-4 and CD28 on activated T lymphocytes. <i>J. Exp. Med.</i> 176: 1595-1604. 2. Kuiper, H.M. et al. (1995) Activated T cells can induce high levels of CTLA-4 expression on

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B cells. J. Immunol. 155: 1776-1783.

3. Castan, J. et al. (1997) Accumulation of CTLA-4 expressing T lymphocytes in the germinal centres of human lymphoid tissues. Immunology 90: 265-271.

4. Lee, C.C. et al. (2009) The regulatory function of umbilical cord blood CD4(+) CD25(+) T cells stimulated with anti-CD3/anti-CD28 and exogenous interleukin (IL)-2 or IL-15. Pediatr Allergy Immunol. 20: 624-32.

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