

## Monoclonal Antibody to HLA Class I ABC - PE

<b>Alternate names:</b>	HLA class I histocompatibility antigen, HLA-ABC, MHC class I antigen
<b>Catalog No.:</b>	SM1222R
<b>Quantity:</b>	100 Tests
<b>Host / Isotype:</b>	Mouse / IgG2a
<b>Clone:</b>	W6/32
<b>Immunogen:</b>	Membrane of human tonsil cells. Spleen cells from immunised BALB/c mice were fused with cells of the NS1/1 - Ag4.1 mouse myeloma cell line.
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> PBS containing 0.09% Sodium Azide and 1% Bovine Serum Albumin <b>Label:</b> PE – R. Phycoerythrin (RPE) <b>Reconstitution:</b> Restore with 1ml distilled water
<b>Applications:</b>	Flow Cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises an antigenic determinant shared among products of the HLA A, B and C loci. Clone W6/32 recognises a conformational epitope, reacting with HLA class I alpha3 and alpha2 domains. MHC class I glycoproteins are found on the surface of almost all nucleated somatic cells. This product is routinely tested in flow cytometry on human peripheral blood lymphocytes. <b>Species:</b> Human, Cynomolgus monkey, Monkey, Bovine, Baboon, Cat, Macaque monkey. Other species not tested.
<b>Storage:</b>	Prior to and following reconstitution store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.
<b>Product Citation:</b>	Purified antibody is cited in: 1. Christine Mayr, Dagmar Bund, Martin Schlee, Andreas Moosmann, David M. Kofler, Michael Hallek, and Clemens-Martin Wendtner Fibromodulin as a novel tumor-associated antigen (TAA) in chronic lymphocytic leukemia (CLL), which allows expansion of specific CD8+ autologous T lymphocytes Blood, Feb 2005; 105: 1566 - 1573. 2. Christine Mayr, David M. Kofler, Hildegard Büning, Dagmar Bund, Michael Hallek, and Clemens-Martin Wendtner Transduction of CLL cells by CD40 ligand enhances an antigen-specific immune recognition by autologous T cells Blood, Nov 2005; 106: 3223 - 3226.

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- General References:**
1. Barnstable, C. J. et al. (1978) Production of monoclonal antibodies to group A erythrocytes, HLA and other human cell surface antigens - new tools for genetic analysis. *Cell*. 14: 9 - 20.
  2. Jacobsen, C. N. et al. (1993) Reactivities of 20 anti-human monoclonal antibodies with leucocytes from ten different animal species. *Vet. Immunol. Immunopathol.* 39: 461 - 466 .
  3. Yoshino, N. et al. (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of *Cynomolgus* monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. *Exp. Anim.* 49 (2): 97-110 .
  4. Stern, P. et al. (1987) Class I-like MHC molecules expressed by baboon placental syncytiotrophoblast. *J. Immunol.* 138 (4): 1088 - 1091.
  5. Verbeek, M. M. et al. (1995) T lymphocyte adhesion to human brain pericytes is mediated via very late antigen-4/vascular cell adhesion molecule-1 interactions. *J. Immunol.* 154:5876-5884.
  6. Tanabe, M. et al. (1992) Structural and functional analysis of monomorphic determinants recognized by monoclonal antibodies reacting with the HLA class I alpha 3 domain. *J. Immunol.* 148:3203-3209.

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