

Monoclonal Antibody to HLA Class I ABC - PE

Alternate names:	HLA Class 2 ABC, Human Leukocyte antigen class I ABC, MHC class I ABC, Major Histocompatibility complex class I
Catalog No.:	AM03005RP-N
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	HLA-class I major histocompatibility (MHC) antigens are intrinsic membrane glycoproteins expressed on nucleated cells and noncovalently associated with an invariant beta-2 microglobulin. They carry foreign determinants important for immune recognition by cytotoxic T cells, thus important for anti-viral and anti-tumour defence. Human HLA-class I antigens are represented by HLA-A, HLA-B and HLA-C molecules. MHC Class I molecules (MHC Class Ia) are expressed on the surface of all human cell types.
Host / Isotype:	Mouse / IgG2a
Clone:	W6/32
Immunogen:	Membrane of human tonsil cells. Remarks: Gene Locus: 6p21.3
Format:	State: Liquid purified Ig fraction. Purification: Size-Exclusion Chromatography. Buffer System: PBS containing 15 mM Sodium Azide as preservative and 0.2% (w/v) high-grade protease free BSA as a stabilizing agent. Label: PE – R-Phycoerythrin under optimum conditions
Applications:	Flow Cytometry (1/50). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody W6/32 recognises virtually all nucleated human cells. It is a valuable reagent for analysing variations in HLA class I expression in different disease states e.g. liver disease, muscular dystrophy, inflammatory myopathy and other neuromuscular disorders. This antibody W6/32 is also suitable as a positive control for HLA tissue typing and crossmatching. Species: Human, Non-Human Primates, Bovine and Feline (Cat). Does not work in Rabbit. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

- General Readings:**
1. Barnstable CJ, Bodmer WF, Brown G, Galfre G, Milstein C, Williams AF, et al. Production of monoclonal antibodies to group A erythrocytes, HLA and other human cell surface antigens - new tools for genetic analysis. *Cell*. 1978 May;14(1):9-20. PubMed PMID: 667938.
 2. Brodsky, F.M. et al. (1982): Evolution of HLA antigenic determinants: species cross reactions of monoclonal antibodies. *Immunogenetics* 15: 151-166.
 3. Neefjes JJ, Hensen EJ, de Kroon TI, Ploegh HL. A biochemical characterization of feline MHC products: unusually high expression of class II antigens on peripheral blood lymphocytes. *Immunogenetics*. 1986;23(5):341-7. PubMed PMID: 3458670.
 4. Stern PL, Beresford N, Friedman CI, Stevens VC, Risk JM, Johnson PM. Class I-like MHC molecules expressed by baboon placental syncytiotrophoblast. *J Immunol*. 1987 Feb 15;138(4):1088-91. PubMed PMID: 3543121.
 5. Kievits F, Ivanyi P. Monomorphic anti-HLA monoclonal antibody (W6/32) recognizes polymorphic H-2 heavy-chain determinants exposed by association with bovine or human but not murine beta 2-microglobulin. *Hum Immunol*. 1987 Oct;20(2):115-26. PubMed PMID: 3316135.
 6. Jacobsen CN, Aasted B, Broe MK, Petersen JL. Reactivities of 20 anti-human monoclonal antibodies with leucocytes from ten different animal species. *Vet Immunol Immunopathol*. 1993 Dec;39(4):461-6. PubMed PMID: 8116221.
 7. Shields MJ, Ribaldo RK. Mapping of the monoclonal antibody W6/32: sensitivity to the amino terminus of beta2-microglobulin. *Tissue Antigens*. 1998 May;51(5):567-70. PubMed PMID: 9672158.
 8. Ladasky JJ, Shum BP, Canavez F, Seuáñez HN, Parham P. Residue 3 of beta2-microglobulin affects binding of class I MHC molecules by the W6/32 antibody. *Immunogenetics*. 1999 Apr;49(4):312-20. PubMed PMID: 10079295.
 9. Tran TM, Ivanyi P, Hilgert I, Brdicka T, Pla M, Breur B, et al. The epitope recognized by pan-HLA class I-reactive monoclonal antibody W6/32 and its relationship to unusual stability of the HLA-B27/beta2-microglobulin complex. *Immunogenetics*. 2001 Aug;53(6):440-6. PubMed PMID: 11685454.
 10. Le Discorde M, Moreau P, Sabatier P, Legeais JM, Carosella ED. Expression of HLA-G in human cornea, an immune-privileged tissue. *Hum Immunol*. 2003 Nov;64(11):1039-44. PubMed PMID: 14602233.

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