

Monoclonal Antibody to HLA Class I ABC - FITC

Alternate names:	HLA Class 2 ABC, Human Leukocyte antigen class I ABC, MHC class I ABC, Major Histocompatibility complex class I
Catalog No.:	AM03005FC-N
Quantity:	0.1 mg
Concentration:	1.0 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 Buffer System: Phosphate buffered saline (PBS), pH~7.4 Preservatives: 15 mM Sodium Azide Label: FITC – Fluorescein isothiocyanate under optimum conditions. The reagent is free of unconjugated
Applications:	Flow Cytometry (1/300 as starting dilution). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody W6/32 recognizes 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, 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.
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-

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 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.
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 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.
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 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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