

1P-422-C025

Monoclonal Antibody to HLA-Class I Phycoerythrin (PE) conjugated (0.025 mg)

Clone:	W6/32
Isotype:	Mouse IgG2a
Specificity:	<p>The antibody W6/32 recognises MHC Class I molecules (MHC Class Ia) that are expressed on the surface of all human nucleated cell types.</p> <p>The antibody W6/32 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.</p> <p>This antibody W6/32 is also suitable as a positive control for HLA tissue typing and crossmatching.</p>
Immunogen:	Membrane of human tonsil cells
Species Reactivity:	Human, Non-Human Primates, Bovine, Feline (Cat)
Negative Species:	Rabbit
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Concentration:	0.1 mg/ml
Storage Buffer:	The reagent is provided in phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent.
Storage / Stability:	<p>Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.</p> <p>Do not use after expiration date stamped on vial label.</p> <p>Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.</p>
Usage:	<p>The reagent is designed for Flow Cytometry analysis.</p> <p>Suggested working dilution is 1:50. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.</p>
Expiration:	See vial label
Lot Number:	See vial label
Background:	<p>HLA-class I major histocompatibility (MHC) antigens are intrinsic membrane glycoproteins expressed on nucleated cells and noncovalently associated with an invariant beta2 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.</p>

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

- *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.
- *Brodsky, F.M. et al. (1982): Evolution of HLA antigenic determinants: species cross reactions of monoclonal antibodies. *Immunogenetics* 15: 151-166.
- *Neefjes, J.J. et al. (1986): A biochemical characterization of feline MHC products: unusually high expression of class II antigens on peripheral blood lymphocytes. *Immunogenetics* 23: 341-347.
- *Stern, P. et al. (1987): Class I-like MHC molecules expressed by baboon placental syncytiotrophoblast. *Journal of Immunology*. 138 (4): 1088 - 1091.
- *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.
- *Jacobsen, C. N. et al. (1993): Reactivities of 20 anti-human monclonal antibodies with leucocytes from ten different animal species. *Vet. Immunopathol*. 39: 461 - 466.
- *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.
- *Ladasky JJ, Shum BP, Canavez F, Seuanez 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.
- *Tran TM, Ivanyi P, Hilgert I, Brdicka T, Pla M, Breur B, Flieger M, Ivaskova E, Horejsi V: 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.
- *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.
- *And many other.

For laboratory research only, not for drug, diagnostic or other use.