



10-422-C100

## Monoclonal Antibody to HLA-Class I Azide Free (0.1 mg)

<b>Clone:</b>	W6/32
<b>Isotype:</b>	Mouse IgG2a
<b>Specificity:</b>	<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>
<b>Immunogen:</b>	Membrane of human tonsil cells
<b>Species Reactivity:</b>	Human, Non-Human Primates, Bovine, Feline (Cat)
<b>Negative Species:</b>	Rabbit
<b>Application:</b>	<p>Flow Cytometry Immunoprecipitation Western Blotting Application note: Non-reducing conditions. Immunohistochemistry (frozen sections) Immunocytochemistry ELISA Functional Application</p> <p>The antibody W6/32 is suitable as a positive control for HLA tissue typing.</p>
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein A
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized.
<b>Storage / Stability:</b>	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	<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:**

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- \*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 monoclonal 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.

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