

TECHNICAL DATA SHEET

CyFlow™ HLA-Class I PE Anti-Hu; Clone W6/32

REF AF666095

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	HLA-Class I
Alternative Names	—
Clone	W6/32
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human, Non-Human Primates Cow Cat
Negative Species Reactivity	Rabbit
Quantity [Concentration]	0.1 mg [0.1 mg/ml]
Immunogen	Membrane of human tonsil cells

Specificity

The mouse monoclonal antibody W6/32 recognises MHC Class I molecules (MHC Class Ia) that are expressed on the surface of all human nucleated cell types. The antibody W6/32 is a valuable reagent for analyzing variations in HLA class I expression in different disease states e.g. liver disease, muscular

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dystrophy, inflammatory myopathy and other neuromuscular disorders. The W6/32 is also suitable as a positive control for HLA tissue typing and crossmatching.

Application

The reagent is designed for Flow Cytometry analysis. Suggested working usage is 2 µg/ml. Indicated dilution is recommended starting point for use of this product, but working concentrations should be validated by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

HLA-class I major histocompatibility (MHC) antigens are intrinsic membrane glycoproteins expressed on nucleated cells and noncovalently associated with an invariant β2-microglobulin. They carry foreign determinants important for immune recognition by cytotoxic T cells, thus important for anti-viral and anti-tumor defense. Human HLA-class I antigens are represented by HLA-A, HLA-B and HLA-C molecules.

References

- Barnstable CJ, Bodmer WF, Brown G, Galfre G, Milstein C, Williams AF, Ziegler A: Production of monoclonal antibodies to group A erythrocytes, HLA and other human cell surface antigens - new tools for genetic analysis. Cell. 1978; 14:9-20. < PMID: 667938 >
- Brodsky FM, Parham P: Evolution of HLA antigenic determinants: species cross reactions of monoclonal antibodies. Immunogenetics. 1982; 15:151-166. < PMID: 6174442 >
- 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; 23:341-347. < PMID: 3458670 >

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- 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; 138(4):1088-1091. < PMID: 3543121 >
- 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. < PMID: 3316135 >
- Jacobsen CN, Aasted B, Broe MK, Petersen JL: Reactivities of 20 anti-human monoclonal antibodies with leucocytes from ten different animal species. Vet Immunopathol. 1993; 39:461-466. < PMID: 8116221 >
- Shields MJ, Ribaudo RK: Mapping of the monoclonal antibody W6/32: sensitivity to the amino terminus of beta-microglobulin. Tissue Antigens . 1998 May; 51(5):567-70. < PMID: 9672158 >
- 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. < PMID: 10079295 >
- 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. < PMID: 11685454 >
- 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. < PMID: 14602233 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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