

TECHNICAL DATA SHEET

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

REF BF895710

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	Purified
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human, Non-Human Primates Cow Cat
Negative Species Reactivity	Rabbit
Quantity [Concentration]	0.1 mg [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

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

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

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Western blot
- Immunohistochemistry (frozen sections)
- Immunocytochemistry
- Functional assays
- Enzyme-linked immunosorbent assay

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 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 β 2-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 >

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

- 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 >
- 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.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com