Purified HLA-ABC – Clone B9.12.1

PN IM0107 – 0.2 mg – Freeze-dried

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

SPECIFICITY

HLA-A, -B, and -C are major histocompatibility complex (MHC)-class I antigens. Like other class I molecules (i.e. HLA-E, -F, -G), HLA-A, -B, and -C are hetero-dimers consisting of a 40 – 45 kDa transmembrane glycoproteic α-chain, non-covalently combined to the invariant β2-micro-globulin. All class I molecules have conserved, monomorphic domains, but are also characterized by their extensive degree of allelic polymorphism. The structure and biology of HLA molecules are reviewed in Ref. 1. MHC molecules play a central role in the immune response: They are involved in the maturation of T cell repertoire, in the activation of T lymphocytes by presentation of xenogenic peptides or in the allogenic response (1).
HLA-A, -B and -C are "classical" MHC Class I molecules and are expressed on the surface of most nucleated human cell types. The cellular distibution of Class I molecules on non-lymphoid tissues is reviewed in Ref.2.
The B9.12.1 monoclonal antibody recognizes a monomorphic epitope common to HLA-A, -B and -C molecules (3).

REAGENT

Purified HLA-ABC Monoclonal Antibody
PN IM0107 – 0.2mg – Freeze-dried

Clone	B9.12.1
Isotype	IgG2a κ mouse
Immunogen	HLA-A2 cytotoxic T-cell clone
Hybridoma	Myeloma NS1/AG.4.1 x Balb/c spleen cells
Source	Ascites fluid
Purification	Protein A affinity chromatography
Buffer	1 mg/mL bovine serum albumin in phosphate-buffered saline.

APPLICATION

Flow cytometry:
Analysis of the antigen profile of Class I HLA molecules which are expressed at the cell surface. Analysis of the tissue distribution of Class I antigens in relation to differentiation during haematopoiesis.
Not for use in the determination of HLA tissue groups.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes
3. Do not use antibody beyond the expiration date on the label.
4. Do not expose reagents to strong light during storage or incubation.
5. Avoid microbial contamination of reagents or incorrect results might occur.

STORAGE CONDITIONS AND STABILITY

This freeze-dried form may be stored at 2 – 8°C until the expiration date stated on the vial label.
No preservative has been added.

REAGENT PREPARATION

Depending of usage, reconstitute with 1 mL of distilled water, with or without 0.1% sodium azide (w/v).
The reconstituted form including 0.1% sodium azide may be stored for up to one month at 2 – 8°C.
The reconstituted form without sodium azide can be stored at –20°C or less, until the expiration date stated on the vial label.
In this case, aliquotting is recommended to avoid multiple freezing / thawing cycles.

PROCEDURE

Flow Cytometry: Use 2 µg of primary antibody (10 µL of the recommended reconstituted form) per 5 x 10^5 cells in one test, or per 100 µL of whole blood.

SELECTED RESEARCH REFERENCES

1. Krensky, A.M., Clayberger, C., "Structure of HLA molecules and immunosuppressive effects of HLA derived peptides", 1996, Intern. Rev. Immunol., 13, 173-185
2. Daar, A.S., Fuggle, S.V., Fabre, J.W., Ting, A., Morris, P.J., "The detailed distribution of HLA-A, B, C antigens in normal human organs", 1984, Transplantation, 38, 287-292
3. Malissen, B., Rebau, N., Liaboeuf, A., Mawas, C., "Human-cytotoxic T cell structures associated with expression of cytolysis. I- Analysis at the clonal cell level of the cytolysis-inhibiting effect of 7 monoclonal antibodies", 1982, Eur. J. Immunol., 12, 739-747.

TRADEMARKS

For additional information in the USA, call 800-526-7694.
Outside the USA, contact your local Beckman Coulter representative.
www.beckmancoulter.com

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