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 distribution 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.

In this case, aliquoting 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

TRADEMARKS
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Outside the USA, contact your local Beckman Coulter representative.
www.beckmancoulter.com

Manufactured by: Immunotech, a Beckman Coulter Company
130, avenue de Lattre de Tassigny, B.P. 177 13276 Marseille Cedex 9, France