Anti- Human HLA-B27 (HLA-ABC-m3)









FITC

HLAB27F-100T

100 test



PRODUCT DESCRIPTION

Clone: HLA-ABC-m3

Isotype: Mouse / IgG2a

Tested application: flow cytometry

Immunogen: Immune complex precipitated from HLA-B27 positive cell line (Bordin).

Species reactivity: Human

Storage instruction: store in the dark at 2-8 °C

Storage buffer: aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN3)

Recommended usage: Immunostep's HLA-B27 FITC is a monoclonal antibody intended for the identification and enumeration of cells expressing the HLA-B27 surface antigen, a class I molecule encoded by the B locus of the human Major Histocompatibility Complex (MHC). This antigen plays a key role in presenting microbial peptides to T cells. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using I test for IO6 cells.

Presentation: liquid

Source: Supernatant proceeding from an in vitro cell culture of a cell hybridoma.

Purification: Affinity chromatography.

2. ANTIGEN DETAILS

Large description: The monoclonal antibody Anti-HLA-B27 is directed against the HLA-B27 antigen, a class I surface molecule encoded by the B locus of the human Major Histocompatibility Complex (MHC). This antigen plays a key role in the presentation of microbial peptides to T cells, contributing to immune recognition and response I.

HLA-B27 is expressed in approximately 7% of the Caucasian population, while a related antigen, HLA-B7, is found in about 22%2. The detection of HLA-B27 is clinically significant due to its strong association with inflammatory diseases, particularly anhylosing spondylitis. Over 90% of individuals diagnosed with anhylosing spondylitis express the HLA-B27 antigen, compared to only 7% of asymptomatic individuals3.

This monoclonal antibody enables the identification of HLA-B27 specificity within the class I HLA allotype, supporting the diagnosis and monitoring of spondyloarthropathies. Flow cytometry using CYT-HLAIB27F provides a rapid and reliable method for assessing HLA-B27 expression in clinical samples 3.

Furthermore, structural and functional studies have shown that HLA-B27 may contribute to disease pathogenesis through mechanisms involving misfolding, aberrant immune responses, and interactions with innate immune receptors.

Other Names: HLA class I histocompatibility antigen, B alpha chain, HLA-B, HLAB Gene ID: 3106

Molecular weight: 45 kDa

For research use only, not for diagnostic procedures.

Please, refer to www.immunostep.com technical support for more information

WARRANTY

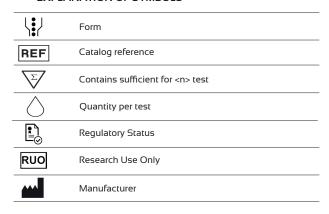
Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties

Immunostep's sole liability is limited to either thereplacement of the products or refund of the purchase price.

4. REFERENCES

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5. EXPLANATION OF SYMBOLS



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