

Product datasheet for **SM1305F**

HLA class I B-27 alpha / HLA-B27 Mouse Monoclonal Antibody [Clone ID: HLA-ABC-m3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HLA-ABC-m3
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl of Neat Antibody to label 10 ⁶ cells or 100 µl of whole blood.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Immune complex precipitated from an HLA-B27 positive cell line (Bordin) by anti HLA antibody and staphylococcal protein A.
Specificity:	<p>This antibody clone HLA-ABC-m3 is a cytotoxic antibody which detects HLA-B27 alloantigen. This antibody reacts with the peripheral blood lymphocytes of 47/47 individuals conventionally typed as HLA-B27 + and precipitates cell surface molecules of 43 and 12 kD, corresponding to the HLA Class 1 heavy chain and beta 2 microglobulin. Affinity studies by Scatchard analysis showed that HLA-B27 has a higher affinity for HLA-B27 ($9.7 \times 10^8 M^{-1}$) than for HLA B7 ($9.5 \times 10^7 M^{-1}$).</p> <p>Subjects Expected Fluorescence Intensity Heterozygous HLA-B27+ Strong Homozygous HLA-B27+ Strong Heterozygous HLA-B7+ Faint Non B27, Non B7 Negative.</p>
Formulation:	<p>PBS, pH 7.4 Label: FITC State: Liquid purified IgG fraction Stabilizer: 0.2% BSA Preservative: 0.09% Sodium Azide Label: Fluorescein Isothiocyanate Isomer 1</p>
Concentration:	lot specific
Purification:	Ion Exchange Chromatography
Conjugation:	FITC



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Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Database Link:	P03989
Background:	Involved in the presentation of foreign antigens to the immune system. HLA B belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta 2 microglobulin). The heavy chain is anchored in the membrane. Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. They are expressed in nearly all cells.
Synonyms:	HLA-B, HLAB, MHC class I antigen B-27