

Monoclonal Antibody to HLA class I B-27 alpha / HLA-B27 - FITC

Alternate names:	HLA-B, HLAB, MHC class I antigen B-27
Catalog No.:	SM1305F
Quantity:	100 Tests
Concentration:	50 µg/ml
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.
Uniprot ID:	P03989
NCBI:	9606
Host / Isotype:	Mouse / IgG2a
Clone:	HLA-ABC-m3
Immunogen:	Immune complex precipitated from an HLA-B27 positive cell line (Bordin) by anti HLA antibody and staphylococcal protein A.
Format:	State: Liquid purified IgG Purification: Ion exchange chromatography Buffer System: PBS, pH7.4 containing 0.09% Sodium Azide and 0.2% Bovine Serum Albumin Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	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 ($9.7 \times 10^8 \text{Me}^{-1}$) than for HLA B7 ($9.5 \times 10^7 \text{Me}^{-1}$). Subjects Expected Fluorescence Intensity Heterozygous HLA-B27+ Strong Homozygous HLA-B27+ Strong Heterozygous HLA-B7+ Faint Non B27, Non B7 Negative. Species: Human. Other species not tested.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Storage:

Store the antibody undiluted at 2-8°C.

DO NOT FREEZE!

This product is photosensitive and should be protected from light.

Shelf life: one year from despatch.

General References:

1. Trapani, J.A., et al. (1983) Description of a mouse monoclonal anti HLA-B27 antibody, HLA-ABC-m3 Human Immunology 7: 205-216.

2. Orr, K. et al. (1994) Utilization of commercial antisera and flow cytometry in HLA-B27 typing. Cytometry (Comm. Clin. Cytometry) 18: 17-20.

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