

Monoclonal Antibody to HLA class I B7 alpha / HLA-B - FITC

Alternate names:	B-7 alpha chain, HLA class I histocompatibility antigen, HLAB, MHC class I antigen B7
Catalog No.:	SM1304F
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	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. The heavy chain is approximately 45 kDa. Hundreds of HLA B alleles have been described.
Uniprot ID:	P01889
NCBI:	NP_005505.2
GeneID:	3106
Host / Isotype:	Mouse / IgG1
Clone:	BB7.1
Immunogen:	Papain solubilized HLA-B7 antigen.
Format:	State: Liquid purified Ig fraction Purification: Affinity Chromatography on Protein G Buffer System: PBS, pH 7.4 containing 1% BSA as stabilizer and 0.09% Sodium Azide as preservative Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of neat-1/10 diluted antibody to label 1x10 ⁶ cells in 100 µl whole blood. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises the Human HLA-B7 antigen and does not cross-react with HLA-B27 or other related HLA antigens. It can be used to distinguish true HLA-B27 positives from false HLA-B27 positives (i.e. HLA-B7 positive) in the investigation of such diseases as ankylosing spondylitis and anterior uveitis.
Species Reactivity:	Tested: Human. Expected from sequence similarity: Cynomolgus monkey.

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.

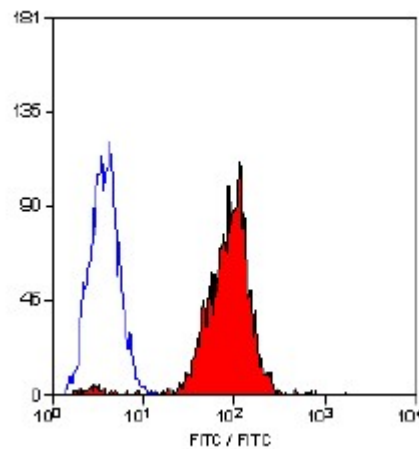
Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend micro-centrifugation before use. Shelf life: 12 months from despatch.

General References:

1. Brodsky, F.M. et al. (1979). Monoclonal antibodies for analysis of the HLA system. *Imm. Reviews* 47: 3-61.
2. Yoshino, N. et al. (2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of Cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. *Exp. Anim.* 49 (2): 97-110.
3. Anania, V. & Coscoy, L. (2010) Palmitoylation of MIR2 is required for its function. *Virology* Dec 15. [Epub ahead of print]

Pictures:

Staining of human peripheral blood lymphocytes with MOUSE ANTI HUMAN HLAB7-FITC (SM1304F)

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