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Monoclonal Antibody to HLA class I A-2 alpha / HLA-A2 - FITC

Alternate names: A-2 alpha chain, HLA class I histocompatibility antigen, HLAA2, MHC class I antigen A-2

Catalog No.: SM1818F

Quantity: 0.1 mg

Concentration: 0.1 mg/ml

Uniprot ID: P01892

NCBI: XP_003119274.1

GeneID: 100507703

Host / Isotype: Mouse / IgG2b

Clone: BB7.2

Immunogen: Papain solubilised HLA-A2. Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line.

Format:
State: Liquid purified IgG
Purification: Affinity chromatography on Protein G
Buffer System: PBS containing 0.09% Sodium Azide and 1% Bovine Sodium Albumin
Label: FITC – Fluorescein Isothiocyanate Isomer 1

Applications: Flow cytometry (Neat - 1/10): Use 10 µl of the suggested working dilution to label 10e6 cells or 100 µl whole blood; this antibody may be used for the flow cytometric detection of HLA-A2 expression.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

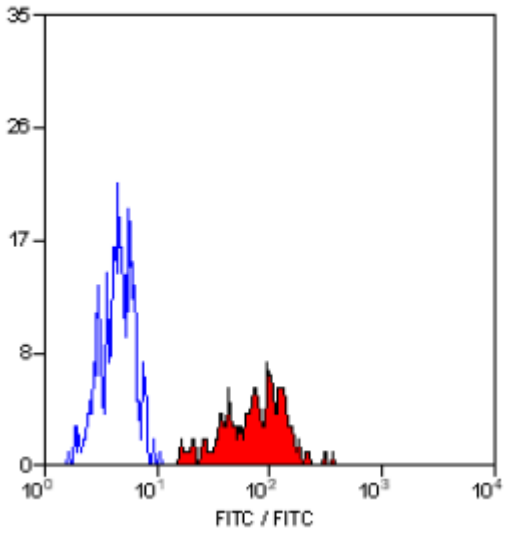
Specificity: This antibody recognises the HLA-A2 histocompatability antigen. The epitope recognised by this antibody has been studied extensively and would appear to include the carboxy-terminus of the alpha-2 helix and a turn on one of the underlying beta strands.
Species: Human.
Other species not tested.

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.
Shelf life: one year from despatch.

General References:
1. Parham, P. and Brodsky, F. M. (1981) Partial purification and some properties of BB7.2. A cytotoxic monoclonal antibody wih specificity for HLA-A2 and a variant of HLA-A28. Hum. Immunol. 3: 277-299.
2. Hogan, K. T. and Brown, S. L. (1992) Localization and characterization of serologic epitopes on HLA-A2. Hum. Immunol. 33: 185-192.

3. Harig, S. et al. (2001) Induction of cytotoxic T-cell responses against immunoglobulin V region-derived peptides modified at human leukocyte antigen-A2 binding residues. Blood. 98: 2999-3005.

Pictures:



Staining of human peripheral blood monocytes with MOUSE ANTI HUMAN HLAA2: FITC (SM1818F).