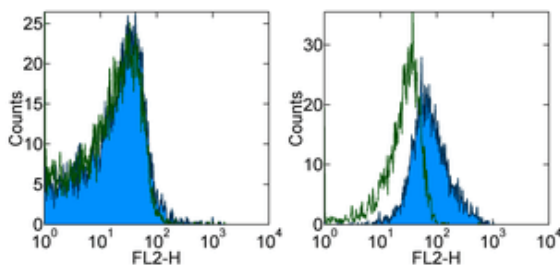


Anti-Human MHC Class I free chain without beta 2 microglobulin Purified

Catalog Number: 14-9958

RUO: For Research Use Only



Staining of normal human peripheral blood mononuclear cells either unactivated (left) or 3-day PHA-activated (right) with 0.25 µg of Mouse IgG1 κ Isotype Control Purified (cat. 14-4714) (open histogram) or 0.25 µg of Anti-Human HLA- MHC Class I free chain without beta 2 microglobulin Purified (filled histogram) followed by F(ab')₂ Anti-Mouse IgG PE (cat. 12-4012). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human MHC Class I free chain without beta 2 microglobulin Purified


REF Catalog Number: 14-9958

Clone: A4

Concentration: 0.5 mg/ml


Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The A4 monoclonal antibody reacts with the class I human leukocyte antigen (HLA) complex in the absence of β2 microglobulin. There are three class I α-chain genes in humans, called HLA-A, -B and -C. Normally, HLA class I proteins are associated non-covalently with β2 microglobulin (β2M). The function of the HLA class I complex is to present peptides derived from intracellular pathogens, including viral pathogens, on the cell surface to antigen specific CD8+ cytotoxic T cells. Class I HLA is expressed by the majority of nucleated cells.

Applications Reported

This A4 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistology staining of paraffin embedded tissue sections.

Applications Tested

This A4 antibody has been tested by flow cytometric analysis of 3-day PHA-activated PBMC. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Lopez de Castro JA, Barbosa JA, Krangel MS, Biro PA, Strominger JL. Structural analysis of the functional sites of class I HLA antigens. *Immunol Rev.* 1985 Jul;85:149-68.

Related Products

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

17-4317 Streptavidin APC

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Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com