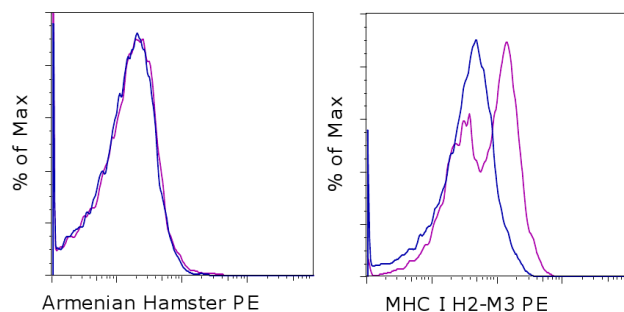


Anti-Mouse MHC Class Ib (H2-M3) PE

Catalog Number: 12-5230

Also known as: MHC Ib, H2M3

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of unstimulated (blue histogram) and N-formyl peptide-stimulated C57BL/6 splenocytes (purple histogram) with 0.5 ug of Armenian Hamster IgG Isotype Control PE (cat. 12-4888) (left) or 0.5 ug of Anti-Mouse MHC Class Ib (H2-M3) PE (right). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse MHC Class Ib (H2-M3) PE

REF **Catalog Number:** 12-5230

Clone: mAb 130

Concentration: 0.2 mg/mL

Host/Isotype: Armenian Hamster IgG

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

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Description

This mAb 130 monoclonal antibody reacts with mouse MHC class Ib H2-M3. This molecule specifically binds N-formylated peptides, which arise from mitochondrial or bacterial proteins. H2-M3-restricted T cells are mainly cytotoxic CD8+ T cells. H2-M3 associates with beta2-microglobulin. Finally, H2-M3 is expressed on cells in the spleen, Peyer's patches, and lymph nodes, but not in the thymus. More specifically, cell surface expression of H2-M3 is low on B cells. However, H2-M3 can be induced by incubation with N-formylated peptide on T and B cells, macrophages, and dendritic cells.

Applications Reported

This mAb 130 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This mAb 130 antibody has been tested by flow cytometric analysis of mouse splenocytes stimulated with N-formylated peptide. This can be used at less than or equal to 1 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

Colmone A, Wang CR. H2-M3-restricted T cell response to infection. *Microbes Infect.* 2006 Jul;8(8):2277-83.

Chiu NM, Chun T, Fay M, Mandal M, Wang CR. The majority of H2-M3 is retained intracellularly in a peptide-receptive state and traffics to the cell surface in the presence of N-formylated peptides. *J Exp Med.* 1999 Aug 2;190(3):423-34. (**mAb 130**, FC, WB, Pubmed)

Lindahl KF, Byers DE, Dabhi VM, Hovik R, Jones EP, Smith GP, Wang CR, Xiao H, Yoshino M. H2-M3, a full-service class Ib histocompatibility antigen. *Annu Rev Immunol.* 1997;15:851-79.

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Related Products

12-4888 Armenian Hamster IgG Isotype Control PE (eBio299Arm)