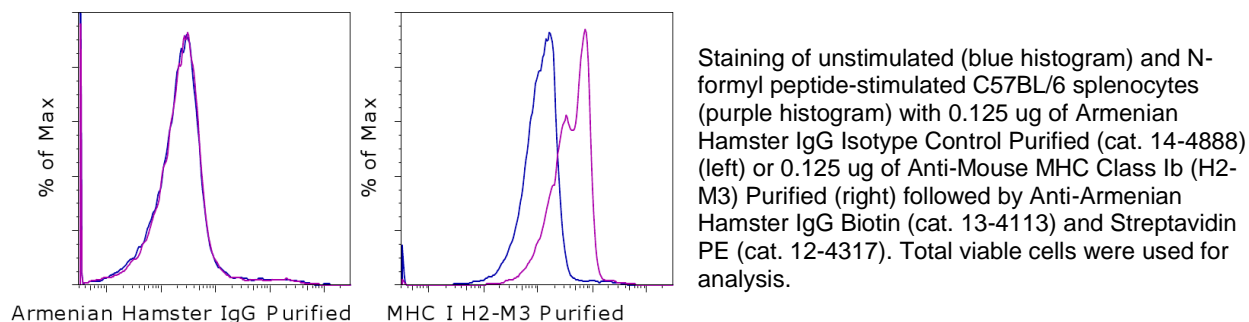


## Anti-Mouse MHC Class Ib (H2-M3) Purified

**Catalog Number:** 14-5230

**Also known as:** MHC Ib, H2M3

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



### Product Information

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

**Catalog Number:** 14-5230

**Clone:** mAb 130

**Concentration:** 0.5 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.

**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<sup>+</sup> T cells. H2-M3 associates with  $\beta$ 2-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 0.25  $\mu$ g per test. A test is defined as the amount (ug) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  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.

### Related Products

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12-4317 Streptavidin PE

13-4113 Anti-Armenian Hamster IgG Biotin (Polyclonal)

14-4888 Armenian Hamster IgG Isotype Control Purified (eBio299Arm)