

Technical Data Sheet

Biotin Anti-Mouse H-2

Catalog Number: 200311, 200312

Size: 25 ug, 100 ug

Target Name: H-2, major histocompatibility complex (MHC) H-2

Regulatory Status: RUO

Product Details

Clone: M1/42

Application: FC

Reactivity: Mouse

Format: Biotin

Isotype: Rat IgG2a

Antibody Type: Monoclonal

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA

Protein Concentration: 0.5 mg/mL

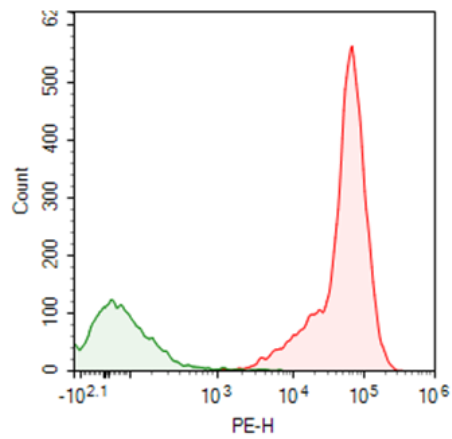
Storage and Handling: The antibody solution should be stored between 2°C and 8°C

Recommended Usage: For flow cytometric staining, it is recommended to use less than 0.1 ug of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.

Background Information

Mouse H-2 Complex is the murine equivalent of the human Major Histocompatibility Complex (MHC), located on chromosome 17. It encodes molecules essential for antigen presentation and immune regulation and is divided into: Class I – expressed on all nucleated cells from mice of the a, b, d, j, k, s, and u haplotypes; presents endogenous peptides to CD8+ T cells via the CD3/TCR complex, aiding cytotoxic immune responses; Class II – expressed mainly on antigen-presenting cells; presents exogenous peptides to CD4+ T cells; Class III – encodes immune-related proteins such as complement components and cytokines.

Product Data



Mouse splenocytes stained with Biotin Anti-Mouse H-2 clone M1_42 (red histogram) or an isotype control (green histogram), followed by SA-PE.