

Technical Data Sheet

FITC Anti-Mouse H-2

Catalog Number: 200309, 200310

Size: 25 tests, 100 tests

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

Regulatory Status: RUO

Product Details

Clone: M1/42

Application: FC

Reactivity: Mouse

Format: FITC

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: Supplied at a lot-specific concentration.

Storage and Handling: The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.

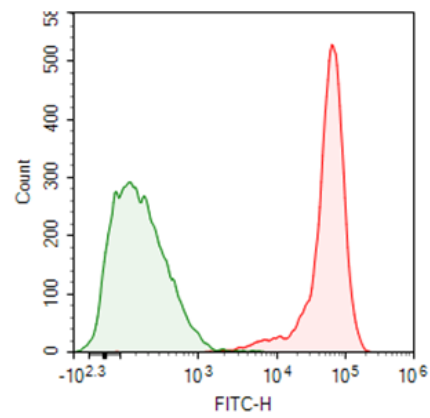
Recommended Usage: For flow cytometric staining, it is recommended to use 5 µL of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application.

Excitation Laser: Blue Laser (488 nm)

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 FITC Anti-Mouse H-2 clone M1_42 (red histogram) or an isotype control (green histogram).