# Purified Anti-Mouse H-2 Antibody[M1/42], Functional Grade

**catalog number:** **E-AB-F12160**

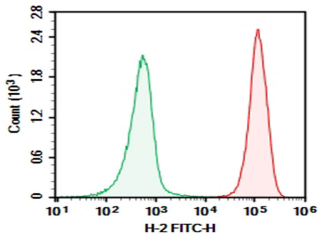
**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

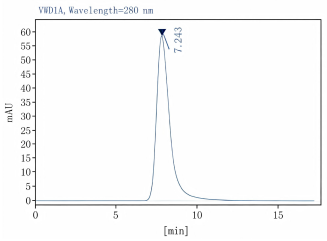
| | |
|---|---|
| **Reactivity** | Mouse |
| **Host** | Rat |
| **Isotype** | Rat IgG2a, κ |
| **Clone** | M1/42 |
| **Buffer** | Sterile PBS, pH 7.2. < 1.0 EU per mg of the antibody as determined by the LAL method . |

| Applications | Recommended Dilution |
|---|---|
| **FCM** | 2 μg/mL(0.5×$10^6$-1×$10^6$ cells) |
| **Block** | Reported in the literature |

## Data




C57/BL6 Mouse splenocytes were stained with 0.2 μg Purified Anti-Mouse H-2 Antibody[M1/42], Functional Grade (Right) and 0.2 μg Rat IgG2a, κ Isotype Control (Left), followed by FITC-conjugated Goat Anti-Rat IgG Secondary Antibody.




Monomer purity ≥95% as determined by analytical size-exclusion chromatography (SEC)

## Preparation & Storage

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|---|---|
| **Storage** | Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles. This preparation contains no preservatives, thus it should be handled under aseptic conditions. |
| **Shipping** | Ice bag |

## Background

The M1/42 antibody reacts with the H-2 MHC class I alloantigens expressed on nucleated cells from mice of the a, b, d, j, k, s, and u haplotypes (Stallcup, KC et al, 1981). MHC class I is involved in antigen presentation to T cells expressing CD3/TCR and CD8 proteins.

None (Azide-Free,Low Endotoxin) are perfectly suited to be used in culture or in vivo (for nonhuman studies) for functional assays blocking, neutralizing, activation or depletion where the presence of azide may damage cells or exogenous endotoxin may signal or activate cells.

## Application References

Jasmin Herz, et al. J Exp Med. 2015 Jul 27;212(8):1153-69.