

## OriGene Technologies Inc.

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SM072P

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## Monoclonal Antibody to MHC Class I H-2Dk - Purified

Catalog No.: SM072P

Quantity: 0.2 mg

Concentration: 0.2 mg/ml

Host / Isotype: Mouse / IgM

Recommended SM13P

**Isotype Controls:** 

Clone: CTDk

**Format:** State: Liquid purified Ig fraction

Buffer System: PBS and 0.09% NaN3

**Applications:** Flow Cytometry (see protocol).

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: This antibody is specific for cells expressing the MHC class I, H-2D antigen coded for by the

k haplotype.

The reaction pattern of this antibody with a panel of in bred and recombinant haplotypes demonstrates that the antibody detects a private determinant of the H-2Dk antigen. It can be used to quantitate cells bearing the H-2Dk antigen from the appropriate strains of mice (i.e. AKR, C3H/He). Class I antigens are expressed on all nucleated cells, platelets and

erythrocytes. **Species:** Mouse.

Other species not tested.

Storage: Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid

repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. Ozato K, Mayer N, Sachs DH. Hybridoma cell lines secreting monoclonal antibodies to

mouse H-2 and Ia antigens. J Immunol. 1980 Feb;124(2):533-40. PubMed PMID: 7188699.

Protocols: FLOW CYTOMETRY ANALYSIS:

Method:

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell

population.

2. Wash 2 times. 3. Resuspend the cells to a concentration of 2x10e cells/ml in media A. Add 50  $\mu$ l of this

suspension to each tube (each tube will then contain 1x10e cells, representing 1 test).

4. To each tube, add  $\sim$ 1.0 µg of antibody.

5. Vortex the tubes to ensure thorough mixing of antibody and cells.

6. Incubate the tubes for 30 minutes at 4°C.

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- 7. Wash 2 times at 4°C.
- 8. Add 100  $\mu$ l of secondary antibody FITC Goat anti-mouse IgM (H+L) at recommended dilution.
- 9. Incubate the tubes at 4°C for 30-60 minutes.
- (It is recommended that the tubes are protected from light since most fluorochromes are light sensitive).
- 10. Wash 2 times at 4°C in media B.
- 11. Resuspend the cell pellet in 50 µl ice cold media B.
- 12. Transfer to suitable tubes for flow cytometric analysis containing 15  $\mu$ l of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.
- A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100  $\mu$ l of 2M sodium azide in 100 mls).
- B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100  $\mu$ l of 2M sodium azide in 100 mls).

