



CELL LAB Mouse Anti-Mouse H-2Dd

| Cat. No. | Form | Quantity |
|----------|------------------------------|----------|
| 732502 | Purified (UNLB) Antibody | 0.5 mg |
| 732503 | Fluorescein (FITC) Conjugate | 0.5 mg |
| 732504 | Biotin (BIOT) Conjugate | 0.5 mg |
| 732505 | Phycoerythrin (PE) Conjugate | 0.1 mg |

For Laboratory Use Only

DESCRIPTION

Clone: 34-5-8S
Isotype: Mouse (C3H.SW) IgG2a κ
Immunogen: C57BL/6 x DBA/2)F₁ hybrid mouse splenocytes¹
Specificity: A conformational epitope on the α 1 and α 2 chains of mouse H-2D^d class I alloantigen

Monoclonal antibody (MAb) 34-5-8S reacts with a conformational epitope on H-2D^d MHC Class I found on the N-terminal domains of α 1 and α 2 chains when complexed with β 2-microglobulin.² The antibody does not react with H-2D^d α chains synthesized *in vitro*.³ Weak cross-reactivity with cells from mice of the H-2^b, H-2^q, and H-2^s haplotypes has been observed by flow cytometric analysis. Reactivity with cells from mice of the H-2^f, H-2^k, H-2^p, and H-2^r haplotypes has not been observed.² MAb 34-5-8S has been reported to block the recognition of H-2D^d by Ly-49A⁺, Ly-49C⁺, and Ly-49G2⁺ natural killer cells.⁴⁻⁸

APPLICATIONS

- Flow cytometry¹
- Complement-dependent cytotoxicity¹
- Blocking of antigen recognition⁴⁻⁸
- Immunoprecipitation⁹
- Immunoaffinity chromatography⁴

CHARACTERIZATION

To ensure lot-to-lot consistency, each batch of product is tested to conform with characteristics of a standard reference reagent using flow cytometry.

WORKING DILUTIONS

Flow Cytometry:

| | |
|----------------|-----------------------------------|
| FITC conjugate | $\leq 1 \mu\text{g}/10^6$ cells |
| BIOT conjugate | $\leq 1 \mu\text{g}/10^6$ cells |
| PE conjugate | $\leq 0.2 \mu\text{g}/10^6$ cells |

Other Applications: Since applications vary, determine the optimum working dilution of the product that is appropriate for your specific needs.

HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.0. No preservatives or amine-containing buffer salts added.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.

- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.
- The phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent.
- Protect fluorochrome-conjugated forms from light. Do not freeze.
- Reagent is stable until the expiration date on the vial when stored at 2-8°C.

STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Minimize exposure of reagent to light during storage or incubation.
5. Avoid microbial contamination of reagent or erroneous results may occur.
6. Use Good Laboratory Practice (GLP) when handling this reagent.
7. Harmful if swallowed.
8. After contact with skin, wash immediately with plenty of water.
9. Contains sodium azide. Sodium azide under acidic conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, immediately wash excessively with water.

TRADEMARKS

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For additional information or if damaged product is received, contact your local Beckman Coulter Representative.

REFERENCES

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