



CELL LAB Mouse Anti-Chicken MHC Class I

Cat. No.	Form	Quantity
733102	Purified (UNLB) Antibody	0.5 mg
733103	Fluorescein (FITC) Conjugate	0.5 mg
733104	Biotin (BIOT) Conjugate	0.5 mg
733105	Phycoerythrin (PE) Conjugate	0.1 mg

For Laboratory Use Only

DESCRIPTION

Clone: F21-2
Isotype: Mouse IgG1_κ
Specificity: A monomorphic epitope on avian MHC Class I molecules (Mr ~ 68 kDa)

Like their mammalian counterparts, avian MHC Class I molecules (also known as B-F antigens) consist of a highly polymorphic α -chain (Mr ~ 44 kDa) non-covalently bound to the invariant β 2-microglobulin subunit (Mr ~ 12 kDa). MHC Class I molecules are expressed on most nucleated cells where they present endogenously synthesized antigenic peptides to CD8⁺ T lymphocytes, which are usually cytotoxic T cells.¹⁻³ Monoclonal antibody (MAb) F21-2 also reacts with turkey MHC Class I.

APPLICATIONS

- Flow cytometry¹⁻³
- Immunoprecipitation¹⁻³
- Western blotting
- Immunohistochemistry
- Immunoaffinity chromatography

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	≤1 μ g/10 ⁶ cells
BIOT conjugate	≤1 μ g/10 ⁶ cells
PE conjugate	≤0.2 μ 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

1. Salomonsen J, Skjodt K, Crone M and Simonsen M. 1987. The chicken erythrocyte-specific MHC antigen. Characterization and purification of the B-G antigen by monoclonal antibodies. *Immunogenetics*, 25:373-382.
2. Moller LB, Kaufman J, Verland S, Salomonsen J, Avila D, Lambris JD and Skjodt K. 1991. Variations in the cytoplasmic region account for the heterogeneity of the chicken MHC class I (B-F) molecules. *Immunogenetics*, 34:110-120.
3. Dunon D, Salomonsen J, Skjodt K, Kaufman J and Imhof BA. 1990. Ontogenic appearance of MHC class I (B-F) antigens during chicken embryogenesis. *Dev Immunol*, 1:127-135.



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