



CELL LAB Rat Anti-Human IL-4

Cat. No.	Form	Quantity
731755	Purified (UNLB) Antibody	0.5 mg
731756	Biotin (BIOT) Conjugate	0.5 mg

For Research Use Only. Not for use in diagnostic procedures.

DESCRIPTION

Clone: MP4-25D2
Immunogen: CHO-expressed recombinant human IL-4
Isotype: Rat IgG1 κ
Specificity: Human Interleukin-4 (IL-4)¹⁻³. The MP4-25D2 antibody has been reported to cross react with IL-4 from Rhesus monkeys. The antibody has also been reported to be useful for epitope mapping of human IL-4.²

APPLICATIONS

Enzyme-Linked Immunosorbent Assay (ELISA) Detection: MP4-25D2 monoclonal antibody is useful as a detection antibody in a sandwich ELISA for quantifying human IL-4 protein levels.^{1,3} Biotinylated MP4-25D2 antibody should be paired with a suitable purified antibody as the capture antibody, with purified recombinant human IL-4 as the standard.

Immunofluorescence/Flow Cytometry: MP4-25D2 antibodies are useful for intracytoplasmic staining and flow cytometric analysis to identify and enumerate IL-4-positive cells within mixed cell populations. Recombinant human IL-4, unlabeled MP4-25D2 (Cat. No. 731755), or Biotinylated Rat IgG1 (Cat. No. 731658) should be used as a specificity control.

Western Blotting: The purified MP4-25D2 antibody is also useful for Western blotting applications. A concentration of 1-5 μ g/mL (in conjunction with AP-labeled Goat Anti-Rat Ig, Cat. No. 732647) has been found to enable detection of \leq 100 ng/lane of recombinant human IL-4 under reducing conditions.

CHARACTERIZATION

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

WORKING DILUTIONS

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 8.2. No preservatives or amine-containing buffer salts added.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃.

- 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. Chretien I, Kimmenade AV, Pearce MK, Banchereau J, and Abrams JS. 1989. Development of polyclonal and monoclonal antibodies for immunoassay and neutralization of human interleukin-4. *J Immunol Meth*, 117:67-71.
2. Ramanathan L, Ingram R, Sullivan L, Greenberg R, Reim R, Trotta P, and Lee H. 1993. Immunochemical mapping of domains in human interleukin 4 recognized by neutralizing antibodies. *Biochem*, 32:3549-3556.
3. Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, and Silver JE. 1992. Strategies of anti-cytokine monoclonal antibody development: Immunoassay of IL-10 and IL-5 in clinical samples. *Immunol Rev*, 127:5-24.



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