SouthernBiotech

Mouse Anti-Human IFN-γ

Cat. No.	Form	Quantity
10114-01	Purified (UNLB) Antibody	0.5 mg
10114-02	Fluorescein (FITC) Conjugate	100 Tests
10114-08	Biotin (BIOT) Conjugate	0.5 mg
10114-09	R-phycoerythrin (R-PE) Conjugate	100 Tests

DESCRIPTION

CLONE B27

IMMUNOGEN *E. coli*-expressed recombinant human IFN-γ

ISOTYPE Mouse $IgG_1\kappa$

SPECIFICITY Human Interferon-γ (IFN-γ)[1-2] This is a neutralizing antibody. B27 monoclonal antibody has been used for epitope mapping of human IFN-γ[1]. The B27 antibody does not bind to denatured IFN-γ[1].

RESEARCH APPLICATIONS

ELISA Detection: B27 monoclonal antibody is useful as a detection antibody in a sandwich ELISA for quantifying human IFN-γ protein levels.[1,2] Biotinylated B27 antibody should be paired with purified A35 antibody (Cat. No. 10113-01) as the capture antibody, with purified recombinant human IFN-γ as the standard.

Immunofluorescence/Flow Cytometry: B27 antibodies are useful for intracytoplasmic staining and flow cytometric analysis to identify and enumerate IFN-γ-positive cells within mixed cell populations. Recombinant human IFN-γ, unlabeled B27 (Cat. No. 10114-01), or Rat IgG_1 (Cat. Nos. 0116-01, 0116-02, 0116-08, or 0116-09, respectively) should be used as a specificity control.

Immunoprecipitation: The B27 antibody has been reported to be useful for immunoprecipitation.[1]

Since applications vary, each investigator should determine the optimal concentration appropriate for individual applications.

CHARACTERIZATION

To ensure acceptable performance, each batch of product is tested in a sandwich ELISA to conform to characteristics of a standard reference reagent.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

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HANDLING AND STORAGE

- The purified (UNLB) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of 100 mM borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added*. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 100 tests in 1.0 mL PBS/NaN_3. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg labeled antibody in 1.0 mL of PBS/NaN_3. Store at 2-8°C.
- The R-phycoerythrin (R-PE) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN_3 and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Reagents are stable for the period shown on the label if stored as directed.

WARNING

Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.

REFERENCES

1. Favre, C., J. Wijdenes, H. Cabrillat, O. Djossou, J. Banchereau, and J.E. de Vries. 1989. Epitope mapping of recombinant human gamma interferon using monoclonal antibodies. *Molec. Immunol.* 26:17-25.
2. Abrams, J.S., M.-G. Roncarolo, H.. Yssel, U. Andersson, G.J. Gleich, and J.E., Silver. 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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