

## Technical Data Sheet

**Biotin Rat Anti-Human IL-7****Product Information**

|                         |  |
|-------------------------|--|
| <b>Material Number:</b> | <b>554494</b>  |
| <b>Size:</b>            | 0.5 mg   |
| <b>Concentration:</b>   | 0.5 mg/ml  |
| <b>Clone:</b>           | BVD10-11C10  |
| <b>Immunogen:</b>       | Recombinant Human IL-7   |
| <b>Isotype:</b>         | Rat IgG2a  |
| <b>Reactivity:</b>      | QC Testing: Human  |
| <b>Storage Buffer:</b>  | Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide. |

**Description**

Biotin Rat Anti-Human IL-7 antibody (clone BVD10-11C10) reacts with human interleukin-7 (IL-7). This antibody can be useful as a detection antibody for sandwich ELISA measuring human IL-7 protein levels. Biotin Rat Anti-Human IL-7 antibody (clone BVD10-11C10) can be paired with Purified Rat Anti-Human IL-7 antibody (clone BVD10-40F6; Cat. No. 554493) as the capture antibody along with recombinant human IL-7 (Cat. No. 554608) as the standard. Investigators are advised to titrate to determine optimal usage concentrations (ELISA), with a suggested range of 2 ug/mL to 0.5 ug/mL for Biotin Rat Anti-Human IL-7 antibody (clone BVD10-11C10). To obtain linear standard curves, doubling dilutions of human IL-7 ranging from ~2,000 to 15 pg/mL are recommended for inclusion in each ELISA plate. This ELISA pairing has been reported to demonstrate limited to no cross-reactivity with the following cytokines: Mouse IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-9, IL-10, IL-12 p70, IL-15, GM-CSF, IFN-γ, MCP-1, TCA-3, TNF or Human IL-1α, IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-8, IL-9, IL-10, IL-11, IL-12 p70, IL-12 p40, IL-13, IL-15, G-CSF, GM-CSF, IFN-γ, lymphotactin, MCP-1, MCP-2, MIP-1α, MIP-1β, NT-3, PDGF-AA, sCD23, SCF, TNF, LT-α, VEGF; rat IL-2, IL-4, IL-6, IL-10, GM-CSF, IFN-γ, TNF.

**Preparation and Storage**

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

**Application Notes****Application**

|                 |                  |
|-----------------|------------------|
| ELISA Detection | Routinely Tested |
| Western blot    | Reported         |

**Suggested Companion Products**

| <u>Catalog Number</u> | <u>Name</u>                  | <u>Size</u> | <u>Clone</u> |
|-----------------------|------------------------------|-------------|--------------|
| 554493                | Purified Rat Anti-Human IL-7 | 0.5 mg      | BVD10-40F6   |
| 554608                | Recombinant Human IL-7       | 5 µg        | (none)       |

**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
3. Please refer to [wwwbdbiosciences.com/pharmingen/protocols](http://wwwbdbiosciences.com/pharmingen/protocols) for technical protocols.

**References**

Abrams J. Immunoassay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. *Curr Protoc Immunol.* 2001; 1:6.20-6.21. (Biology: ELISA)

Abrams JS, Roncarolo MG, Yssel H, Andersson U, Gleich GJ, Silver JE. Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. *Immunol Rev.* 1992; 127:5-24. (Biology: ELISA)

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