

## Anti-Mouse IL-12/IL-23 p40 Functional Grade Purified

Catalog Number: 16-7123

Also Known As: Interleukin-12, IL12 / Interleukin-23, IL23 p40

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

### Product Information

Contents: Anti-Mouse IL-12/IL-23 p40 Functional Grade Purified

 Catalog Number: 16-7123

Clone: C17.8

Concentration: 1 mg/mL

Host/Isotype: Rat IgG2a, kappa

Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial

### Description

The C17.8 antibody reacts with the p40 subunit of IL-12 and IL-23. The C17.8 antibody has been found to neutralize IL-12 and IL-23 bioactivity. For specific neutralization of IL-23 only, please see clone G23-8 (anti-mouse IL-23 p19). IL-12 is a 70 kDa heterodimeric cytokine composed of two covalently linked chains, p40 and p35, and is secreted by activated monocytes, macrophages, and dendritic cells. IL-23 is a heterodimer composed of the disulfide-linked p19 protein and p40 protein, expressed by activated dendritic cells.

### Applications Reported

The C17.8 antibody has been reported for use in IP, Western, ELISA, neutralization, and intracellular staining for flow cytometric analysis.

### Applications Tested

The Functional Grade Purified C17.8 antibody has been tested by LAL assay to verify low endotoxin levels and has been tested for ELISA detection and in bioassay for neutralization of IL-12 p70 and IL-23 bioactivity.

The C17.8 antibody at 62.0 ng/ml has been found to inhibit by 50% the biological effects of 1 ng/ml mouse IL-12 p70 (14-8121) or mouse IL-23 (14-8231), in corresponding bioassay. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in the BestProtocols® section.

### References

Cho D, Lee WJ, Halloran PJ, Trinchieri G, Kim YB. Enhancement of porcine natural killer cell activity by recombinant human and murine IL-12. *Cell Immunol.* 1996 Aug 25;172(1):29-34.

Aragane Y, Riemann H, Bhardwaj RS, Schwarz A, Sawada Y, Yamada H, Luger TA, Kubin M, Trinchieri G, Schwarz T. IL-12 is expressed and released by human keratinocytes and epidermoid carcinoma cell lines. *J Immunol.* 1994 Dec 15;153(12):5366-72.

### Related Products

14-7122 Anti-Mouse IL-12 p35 Purified (C18.2)

14-8231 Mouse IL-23 Recombinant Protein

16-4321 Rat IgG2a K Isotype Control Functional Grade Purified (eBR2a)

88-7234 Mouse IL-23 ELISA Ready-SET-Go!® (Discontinued: Please see 88-7230 (2nd generation assay))

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