

Anti-Mouse IL-12 p35 Purified

Catalog Number: 14-7122

Also known as: Interleukin-12

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

Product Information

Contents: Anti-Mouse IL-12 p35 Purified
Catalog Number: 14-7122
Clone: C18.2
Concentration: 0.5 mg/mL
Host/Isotype: Rat IgG2a, kappa

REF



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

Caution, contains Azide

Description

The C18.2 antibody reacts with the p35 subunit of mouse interleukin-12 (IL-12). Interleukin-12 (IL-12) is a heterodimeric 70 kD (p70) cytokine composed of two covalently linked, glycosylated chains, 40kD (p40) and 35-kD (p35). IL-12 is mainly produced by monocytes, macrophages, and dendritic cells in response to bacterial products such as lipopolysaccharides (LPS), to intracellular pathogens or upon interaction with activated T cells. IL-12 was originally discovered because of its ability to induce interferon-gamma (IFN-g) production, cell proliferation, and cytotoxicity mediated by natural killer cells and T cells. It is now established that IL-12 also plays a key role in the development of Th1 responses, leading to IFN-g and IL-2 production. These cytokines can in turn promote T-cell responses and macrophage activation.

Applications Reported

This C18.2 antibody has been reported for use in cytokine neutralization, and ELISA capture antibody.

Applications Tested

The C18.2 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of bioactive mouse IL-12 p70 in combination with the biotinylated C17.8 (cat. 13-7123) antibody for detection and recombinant mouse IL-12 p70 (cat. 14-8121) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 µg/mL. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 2000 pg/ml - 15 pg/mL should be included in each ELISA plate.

References

Stark MA, Huo Y, Burcin TL, Morris MA, Olson TS, Ley K. Phagocytosis of apoptotic neutrophils regulates granulopoiesis via IL-23 and IL-17. *Immunity*. 2005 Mar;22(3):285-94. (C18.2 NU)

Wysocka M, Robertson S, Riemann H, Caamano J, Hunter C, Mackiewicz A, Montaner LJ, Trinchieri G, Karp CL. IL-12 suppression during experimental endotoxin tolerance: dendritic cell loss and macrophage hyporesponsiveness. *J Immunol*. 2001 Jun 15;166(12):7504-13.

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.

Wysocka M, Kubin M, Vieira LQ, Ozmen L, Garotta G, Scott P, Trinchieri G. Interleukin-12 is required for interferon-gamma production and lethality in lipopolysaccharide-induced shock in mice. *Eur J Immunol*. 1995 Mar;25(3):672-6.

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

13-7123 Anti-Mouse IL-12/IL-23 p40 Biotin (C17.8)

14-4321 Rat IgG2a K Isotype Control Purified (eBR2a)

16-7123 Anti-Mouse IL-12/IL-23 p40 Functional Grade Purified (C17.8)

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