

Product Data Sheet

LEAF™ Purified anti-human IL-12 (p70)

Catalog # / Size: 511004 / 500 µg

Clone: 7B12

Isotype: Rat IgG1, κ

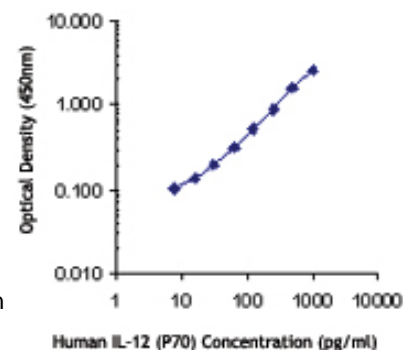
Reactivity: Human, p70 heterodimer

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Applications:

Applications: ELISA Capture, ELISPOT Capture

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For ELISA capture applications, a concentration range of 1-4 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IL-12 p70 recombinant protein ranging from 1000 to 8 pg/ml are recommended for each ELISA plate. For use as an ELISPOT capture antibody, a concentration range of 2-6 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA or ELISPOT capture:** The Purified 7B12 antibody is useful as a capture antibody for an IL-12 p70 specific sandwich ELISA or ELISPOT, when used in conjunction with the biotinylated C8.6 antibody (Cat. No. 508802/508805) as the detection antibody. The LEAF™ Purified antibody is suggested for ELISPOT capture.
Note: For testing human IL-12/IL-23 p40 (monomer, dimer) in serum or plasma, BioLegend's ELISA Max™ Sets (Cat. No. 430701 to 430706) are specially developed and recommended. For testing human IL-12 p70 in serum or plasma, BioLegend's ELISA Max™ Sets (Cat. No. 431701 to 431706) are specially developed and recommended.

Description: Bioactive IL-12 is a potent regulator of cell-mediated immune responses and key mediator of Th1 cell development. Bioactive IL-12 is secreted by activated B lymphocytes, dendritic cells and macrophages as a 70 kD heterodimeric glycoprotein comprised of disulfide-bonded 35 kD and 40 kD subunits. The disulfide-linked p40 homodimer can bind to IL-12 receptors and antagonize the activities of bioactive IL-12. The 7B12 antibody reacts with human IL-12 p70 heterodimer, but shows no reactivity with IL-12 p35 or p40 monomer. The 7B12 has high affinity to human IL-12 p70 heterodimer.

Antigen References: 1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press San Diego.
2. Quesniaux V. 1992. *Research Immunol.* 143:385.
3. Trinchieri G, *et al.* 1992 *Prog. Growth Factor Res.* 4:355.
4. Trinchieri G, *et al.* 1993 *Immunol. Today.* 14:335.
5. Oppmann B, *et al.* 2000 *Immunity.* 13:715.
6. Aggarwal S, *et al.* 2003 *J. Biol. Chem.* 278:1910.
7. Parham C, *et al.* 2002 *J. Immunol.* 168:5699.
8. Belladonna ML, *et al.* 2002 *J. Immunol.* 168:5448.
9. Lankford CS, *et al.* 2003 *J. Leukoc. Biol.* 73:49.

Related Products:

Product
Biotin anti-human IL-12/IL-23 p40 (monomer, dimer, heterodimer)
Recombinant Human IL-12 (p70)
HRP Avidin
TMB Substrate Reagent Set
ELISA Assay Diluent (5X)

Clone
C8.6

Avidin

Application

ELISA Detection, ELISPOT
Detection
BA, ELISA
ELISA, ELISPOT, IHC, WB
ELISA
ELISA



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