

Product Data Sheet

Purified anti-human IL-12 (p70)

Catalog # / Size: 511001 / 50 µg
511002 / 500 µg

Clone: 7B12

Isotype: Rat IgG1, κ

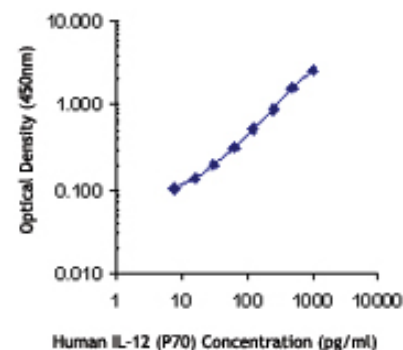
Reactivity: Human, p70 heterodimer

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Applications:

Applications: ELISA 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.

Application References: 1. Shimomura Y, *et al.* 2008. *J. Exp. Med.* 205:1343. PubMed

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	Clone	Application
	Biotin anti-human IL-12/IL-23 p40 (monomer, dimer, heterodimer)	C8.6	ELISA Detection, ELISPOT Detection
	Recombinant Human IL-12 (p70)		BA, ELISA
	HRP Avidin	Avidin	ELISA, ELISPOT, IHC, WB
	TMB Substrate Reagent Set		ELISA
	ELISA Assay Diluent (5X)		ELISA



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