

Product Data Sheet

Biotin anti-mouse IL-12/IL-23 p40 (monomer, dimer, heterodimer)

Catalog # / Size: 505301 / 50 µg
505302 / 500 µg

Clone: C17.8

Isotype: Rat IgG2a, κ

Immunogen: CHO expressed, recombinant mouse IL-12 p70

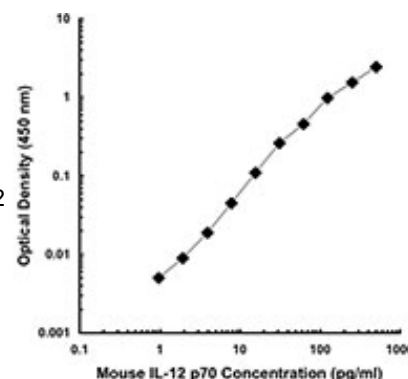
Reactivity: Mouse, IL-12/IL-23 p40 subunit (monomer, homodimer and heterodimer IL-12 p35/p40 or IL-23 p19/p40)

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

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. **Do not freeze.**



Applications:

Applications: ELISA Detection, ELISPOT Detection, ICFC

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA detection antibody, a concentration range of 0.25-1.0 µg/ml is recommended. For use as an ELISPOT detection antibody, a concentration range of 0.5-2.0 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IL-12 recombinant protein ranging from 250 to 2 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA Detection^{1,2,6-9} or ELISPOT Detection:** The biotinylated C17.8 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with the purified C15.6 antibody (Cat. No. 505202/505208) as capture antibody and recombinant mouse IL-12 p40 (Cat. No. 563801) or recombinant mouse IL-12 p70 (Cat. No. 563901) as the standard.

Neutralization^{1,2,4,5,6,10}: The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of mouse IL-12 bioactivity *in vivo* and *in vitro* (Cat. No. 505304). For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 505308) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/µg).

Additional reported applications (for relevant formats of this clone) include: Western blotting³, immunoprecipitation³, and intracellular immunofluorescent staining and flow cytometric analysis.

Note: For testing mouse IL-12 p40 (monomer, dimer, heterodimer) in serum or plasma, BioLegend's ELISA Max™ Sets (Cat. No. 431601 to 431606) are specially developed and recommended.

Application References:

1. Kitagaki K, *et al.* 2002. *Clin. Diagn. Lab Immunol.* 9:1260.
2. Reichmann G, *et al.* 1999. *J. Immunol.* 163:3354.
3. Wysocka M, *et al.* 1995. *Eur. J. Immunol.* 25:672.
4. Neucath M, *et al.* 1995. *J. Exp. Med.* 182:1281.
5. Cousens LP, *et al.* 1999 *J. Exp. Med.* 189:1315.
6. Gately M. 1995. *Curr. Prot. Immunol.* John Wiley and Sons, New York. Unit 6.16.
7. O'Connell PJ, *et al.* 2006. *Blood* 107:1010.
8. Dzhagalov I, *et al.* 2007. *J. Immunol.* 178:2113.
9. Xu G, *et al.* 2007. *J. Immunol.* 179:5358. PubMed
10. Sugimoto K, *et al.* 2007. *Gastroenterology* 133:124. PubMed

Description: The C17.8 antibody reacts with mouse IL-12 p40 subunit of the IL-12 p70 heterodimer and IL-23 p40 subunit of the IL-23 p19/p40, as well as p40 monomer and homodimer. The C17.8 antibody can neutralize the bioactivity of natural or recombinant IL-12.

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
Purified anti-mouse IL-12/IL-23 p40 (monomer, dimer, heterodimer)	C15.6	ELISA Capture, IHC, IP, WB



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

Recombinant Mouse IL-12 (p40 homodimer)		BA, ELISA
Recombinant Mouse IL-12 (p70)	rm IL-12 (p70)	BA, ELISA, ELISPOT
HRP Avidin	Avidin	ELISA, ELISPOT, IHC, WB
TMB Substrate Reagent Set		ELISA
ELISA Assay Diluent (5X)		ELISA
Mouse IL-12/IL-23 (p40) ELISA MAX™ Standard		ELISA
Mouse IL-12/IL-23 (p40) ELISA MAX™ Deluxe		ELISA



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587