

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

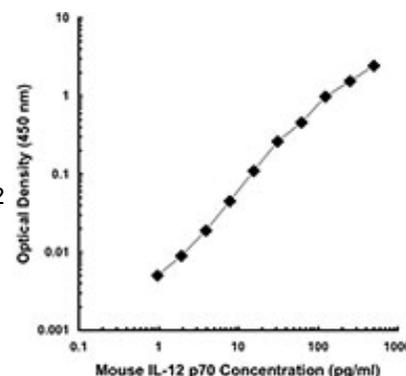
Reactivity: Mouse, IL-12/IL-23 p40 subunit (monomer, homodimer and heterodimer IL-12 p35/p40 or IL-23 p19/p40)

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 |



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

rm IL-12 (p70)
Avidin

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



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