

# Product Data Sheet

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

**Catalog # / Size:** 508801 / 50 µg  
508802 / 500 µg

**Clone:** C8.6

**Isotype:** Mouse IgG1, κ

**Immunogen:** COS-expressed p40 subunit of human IL-12

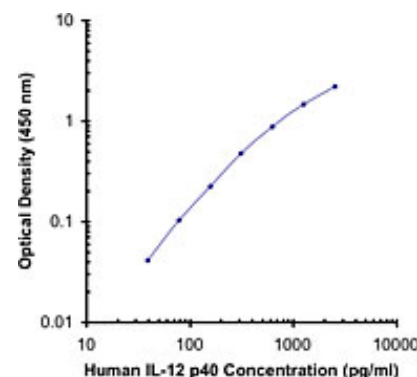
**Reactivity:** Human, IL-12/IL-23 p40 subunit (monomer, homodimer and heterodimer IL-12 p35/p40 or IL-23 p19/p40)

**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

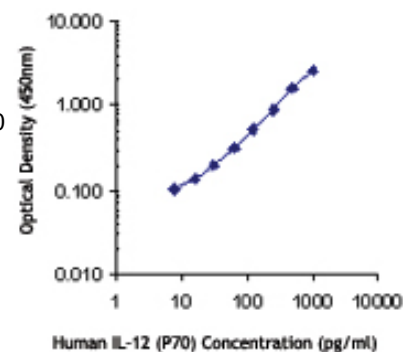
**Storage:** The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



## Applications:

**Applications:** ELISA Detection, ELISPOT Detection

**Recommended Usage:** Each lot of this antibody is quality control tested by ELISA assay. For ELISA detection applications, a concentration range of 0.5-2.0 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IL-12 p40 recombinant protein ranging from 4000 to 30 pg/ml are recommended for each ELISA plate. 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 detection antibody, a concentration range of 1-4 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.



**Application Notes:** **ELISA or ELISPOT Detection<sup>1,2</sup>:** The biotinylated C8.6 antibody is useful as a detection antibody for an IL-12 p40 specific sandwich ELISA or ELISPOT assay, when used in conjunction with the C8.3 antibody (Cat. No. 501702/501704) as the capture antibody. The biotinylated C8.6 antibody is useful as a detection antibody for an IL-12 p70 specific sandwich ELISA or ELISPOT assay, when used in conjunction with the Purified 7B12 antibody (Cat. No. 511002/511004) as the capture antibody. Each lot of this antibody is quality control tested by ELISA assay.

**Neutralization<sup>1,3,4</sup>:** The LEAF™Purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of human IL-12 bioactivity (Cat. No. 508804).

**Application References:**

1. D'Andrea A, *et al.* 1992. *J. Exp. Med.* 176:1387.
2. D'Andrea A, *et al.* 1993. *J. Exp. Med.* 178:1041.
3. Goodier M, *et al.* 2000. *J. Immunol.* 165:139.
4. Aragane Y, *et al.* 1994. *J. Immunol.* 153:5366.

**Description:** The C8.6 antibody reacts with human 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 C8.6 antibody has been reported to strongly inhibit different biological activities of IL-12, (e.g., IFN-gamma induction, mitogenic effects on PHA blasts, and enhancement of NK cell-mediated cytotoxicity). The C8.6 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**  
Purified anti-human IL-12/IL-23 p40 (monomer, homodimer)  
Recombinant Human IL-12/IL-23 (p40)

**Clone**  
C8.3

**Application**  
ELISA Capture  
  
ELISA



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Recombinant Human IL-12 (p70)  
HRP Avidin  
TMB Substrate Reagent Set  
ELISA Assay Diluent (5X)

Avidin

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



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