

# Product Data Sheet

## LEAF™ Purified anti-human IL-12/IL-23 p40 (monomer, dimer, heterodimer)

**Catalog # / Size:** 508803 / 50 µg  
508804 / 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 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:** ICFC - *Quality tested*  
IP, Neut, WB - *Reported in the literature*

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.125 µg per million cells in 100 µl volume or 100 µl of whole blood. 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**  
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl  
Recombinant Human IL-12/IL-23 (p40)  
Recombinant Human IL-12 (p70)

**Clone**  
MOPC-21

**Application**  
FC, ICFC, WB, IP, ICC, IF, FA  
ELISA  
BA, ELISA



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