

Product Data Sheet

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

Catalog # / Size: 505303 / 50 µg
505304 / 500 µg
505305 / 1 mg

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 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 IL-12/IL-23 antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:

Applications: ELISA - *Quality tested*
Neut, ICFC, IP, WB - *Reported in the literature*

Recommended Usage: Each lot of this IL-12/IL-23 antibody is quality control tested by ELISA assay. 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
Recombinant Mouse IL-12 (p40 homodimer)		BA, ELISA



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Recombinant Mouse IL-12 (p70)
LEAF™ Purified Rat IgG2a, κ Isotype Ctrl

rm IL-12 (p70)
RTK2758

BA, ELISA, ELISPOT
FC, ICFC, WB, IP, ICC, IF,
IHC, FA



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