

Product Data Sheet

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

Catalog # / Size: 501801 / 50 µg
501802 / 500 µg

Clone: C11.5

Isotype: Mouse IgG1, κ

Immunogen: CHO-expressed, recombinant human IL-12 p70 heterodimer

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.

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.

Applications:

Applications: ICFC - *Quality tested*
IHC, WB - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per 10⁶ cells in 100 µl volume. The purified C11.5 has been tested by blocking fluorochrome conjugated C11.5 for intracellular cytokine staining. In order to obtain complete blocking results, a saturated amount of purified antibody (≤ 5.0 µg/million cells) should be used for incubation with target cells, prior to staining with fluorochrome conjugated antibody. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **Flow Cytometry^{3,5}:** The fluorochrome-labeled C11.5 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-12 p40 (monomeric, heterodimeric, homodimeric) -producing cells within mixed cell populations. For intracellular cytokine staining protocol, please visit www.biolegend.com and click on the support section.

Neutralization⁶: The LEAF™ purified antibody (Endotoxin **Additional reported applications (for the relevant formats) include:** Western blotting, ELISA Capture^{1,2}, ICFC Blocking, immunohistochemical staining⁴ of paraformaldehyde-fixed, saponin-treated tissue frozen sections, and immunocytochemistry.

Note: For testing human IL-12/IL-23 p40 (monomer, dimer) in serum or plasma, BioLegend's ELISA Max™ Sets (Cat. No. 430701 to 430706) are specially developed and recommended. For testing human IL-12 p70 in serum or plasma, BioLegend's ELISA Max™ Sets (Cat. No. 431701 to 431706) are specially developed and recommended.

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. Prussin C, *et al.* 1995. *J. Immunol. Meth.* 188:117.
4. Leifeld L, *et al.* 2002. *Hepatology* 36:1001.
5. Pekkari K, *et al.* 2001. *Blood* 97:3184.
6. Bolovan-Fritts CA, *et al.* 2004. *J. Virol.* 78:13173.

Description: The C11.5 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 C11.5 antibody can neutralize the bioactivity of natural or recombinant IL-12 p70.

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 Mouse IgG1, κ Isotype Ctrl
Cell Staining Buffer
Fixation Buffer
Permeabilization Wash Buffer (10X)
Brefeldin A Solution (1,000X)
Monensin Solution (1,000X)

Clone
MOPC-21

Application
FC, ICFC, ICC, IF, IHC, IP, WB
FC, ICC, ICFC
ICC, ICFC
ICC, ICFC, IHC
ICFC
ICFC



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