

## Alexa Fluor® 647 anti-human IL-12/IL-23 p40

**Catalog # / Size:** 501818 / 100 tests

**Clone:** C11.5

**Isotype:** Mouse IgG1,  $\kappa$

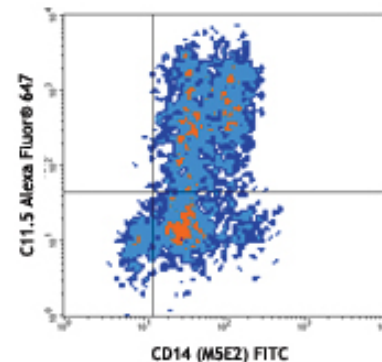
**Immunogen:** CHO-expressed, recombinant human IL-12 p70 heterodimer

**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, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



*IFN-g-primed and then LPS-stimulated (overnight) human peripheral blood monocytes surface stained with CD14 (M5E2) FITC and intracellular stained with C11.5 Alexa Fluor® 647*

## Applications:

**Applications:** ICFC - *Quality tested*

**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 5  $\mu$ l per 10<sup>6</sup> cells in 100  $\mu$ l volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

\*\* Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

**Application Notes:** **Flow Cytometry<sup>3,5</sup>:** 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](http://www.biolegend.com) and click on the support section.

**Neutralization<sup>6</sup>:** The LEAF™ purified antibody (Endotoxin **Additional reported applications (for the relevant formats) include:** Western blotting, ELISA Capture<sup>1,2</sup>, ICFC Blocking, immunohistochemical staining<sup>4</sup> 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.



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Related Products:Product	Clone	Application
Cell Staining Buffer		FC, ICC, ICFC
Fixation Buffer		ICC, ICFC
Permeabilization Wash Buffer (10X)		ICC, ICFC, IHC
Brefeldin A Solution (1,000X)		ICFC
Monensin Solution (1,000X)		ICFC
7-AAD Viability Staining Solution		FC
Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (ICFC)	MOPC-21	ICFC, IF



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