

# IL-12/IL-23 p40 Monoclonal Antibody (C8.6), Functional Grade, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Human
Published Species	Human
Host/Isotope	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	C8.6
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C
RRID	AB_469234

Applications	Tested	Dilution	Published
ELISA (ELISA)	✓	Assay-Dependent	1 Publication
Neutralization (Neu)	✓	Assay-Dependent	1 Publication
Functional Assay (FN)	✓	Assay-Dependent	

## Product Specific Information

Description: The C8.6 antibody reacts with the p40 subunit of human IL-12 p70 and human IL-23. IL-12 is a 70 kDa heterodimeric cytokine composed of two covalently linked chains, p40 and p35, and secreted primarily by activated monocytes, macrophages, and dendritic cells. IL-23 is a biologically-related, heterodimeric cytokine composed of disulfide-linked p40 and p19 subunits.

Applications Reported: The C8.6 antibody has been reported for use ELISA, ELISPOT and neutralization.

Applications Tested: The Functional Grade Purified C8.6 antibody has been tested by LAL assay to verify low endotoxin levels and has been tested for ELISA detection and in bioassay for neutralization of IL-12 p70 and IL-23 bioactivity.

The C8.6 antibody at 60.0 ng/mL has been found to inhibit by 50% the biological effects of 1 ng/mL human IL-12 p70 (14-8129) or human IL-23 (14-8239), in corresponding bioassay. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in the BestProtocols® section.

Endotoxin: Less than 0.001 ng/ug antibody as determined by the LAL assay.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

## 2 References

### ELISA (1)

PloS one

#### Salmonella induced IL-23 and IL-1beta allow for IL-12 production by monocytes and Mphi1 through induction of IFN-gamma in CD56 NK/NK-like T cells.

"16-7129 was used in an ELISA assay to show that various TLR agonists and infection with Salmonella can induce interleukin (IL)-23, IL-18 and IL-1, but not IL-12, production in monocytes and type 1 pro-inflammatory macrophages."

Authors: van de Wetering D, de Paus RA, van Dissel JT, van de Vosse E

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2009

### Neutralization (1)

International immunology

#### Distinct indirect pathways govern human NK-cell activation by TLR-7 and TLR-8 agonists.

"16-7129 was used in Neutralization experiments to show that IRMs can modulate NK-cell function both in vitro and in vivo and that distinct indirect pathways control human NK-cell activation by TLR-7 and TLR-8 agonists."

Authors: Gorski KS, Waller EL, Bjornnton-Severson J, Hanten JA, Riter CL, Kieper WC, Gorden KB, Miller JS, Vasilakos JP, Tomai MA, Alkan SS

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2006

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