

IL-23 p19 Monoclonal Antibody (23dcdp), PerCP-eFluor 710, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotope	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	23dcdp
Conjugate	PerCP-eFluor™ 710
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573847

Applications	Tested	Dilution	Published
Miscellaneous PubMed (Misc)	-		1 Publication
Flow Cytometry (Flow)	✓	5 µL (0.03 µg)/test	

Product Specific Information

Description: This 23dcdp monoclonal antibody reacts with the p19 subunit of human IL-23. This heterodimeric cytokine is composed of two disulfide-linked subunits, p40 and p19. It is closely related to IL-12, with which it shares the p40 subunit. The IL-23 receptor is also heterodimeric and shares the IL-12Rβ1 chain with IL-12, while the IL-23R chain is unique to the IL-23 receptor complex. IL-23R signaling occurs through the Jak/STAT pathway and results in RORγt expression, which promotes maintenance and proliferation of T helper 17 (Th17) cells. Dendritic cells and macrophages produce IL-23 in response to TLR2, TLR4, and TLR8 ligands, as well as agonists of the β-glucan receptor, Dectin-1. Our studies suggest donor, kinetics and type of stimulant can result in variation in IL-23 expression levels. Recent publications suggest the p19 subunit may also exist in the absence of association with p40.

Applications Reported: This 23dcdp antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This 23dcdp antibody has been pre-titrated and tested by intracellular staining followed by flow cytometric analysis of stimulated normal human peripheral blood cells. This can be used at 5 µL (0.03 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We

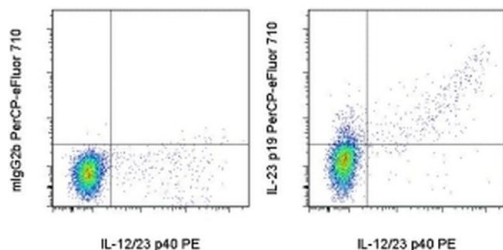
recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For IL-23 p19 Monoclonal Antibody (23dcdp), PerCP-eFluor 710, eBioscience™



IL-23 p19 Antibody (46-7823-42) in Flow

Normal human peripheral blood cells were stimulated overnight with LPS and Imidazoquinoline (R848) in the presence of Protein Transport Inhibitor Cocktail (Product # 00-4980-03), then intracellularly stained with Anti-Human IL-12/IL-23 p40 PE (Product # 12-7129-82) and Mouse IgG2b K Isotype Control PerCP-eFluor® 710 (Product # 46-4732-82) (left) or Anti-Human IL-23 p19 PerCP-eFluor® 710 (right). Viable cells in the monocyte gate, as determined by Fixable Viability Dye eFluor® 506 (Product # 65-0866-14), were used for analysis.

1 Reference

Miscellaneous PubMed (1)

Molecular immunology

Prostaglandin E2 inhibits IL-23 and IL-12 production by human monocytes through down-regulation of their common p40 subunit.

Authors: Kalim KW, Groettrup M

Species
Not Applicable

Dilution
Not Cited

Year
2013

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