PerCP-Cy™5.5 Rat anti-Mouse IL-23 Receptor

Product Information

Material Number: 564828
Alternate Name: Il23r; IL-23R; Interleukin 23 receptor
Size: 50 µg
Concentration: 0.2 mg/ml
Clone: O78-1208
Immunogen: Mouse IL-23 Receptor Recombinant Protein
Isotype: Rat (LOU) IgG1, κ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The O78-1208 monoclonal antibody specifically binds to the mouse Interleukin-23 Receptor (IL-23R) subunit that is encoded by the il23r gene. The IL-23R subunit is a type I transmembrane glycoprotein and member of the hemopoietin receptor superfamily. The mouse IL-23 Receptor complex is comprised of IL-23R and IL-12 receptor beta 1 (IL-12Rβ1) subunits. The IL-23R complex can bind IL-23, a cytokine that plays roles in innate and adaptive immunity as well as in autoimmune diseases, eg, by the generation and maintenance of Th17 cells. Mouse IL-23R is expressed by activated/memory CD4+ T cells, Th1, Th2 and Th17 cells, γδ T cells, dendritic cells and macrophages as determined by IL-23R mRNA expression and IL-23R-GFP reporter mouse studies. The IL-23-bound IL-23R complex transduces an intracellular signal pathway mediated by a Jak-STAT signaling cascade.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Please observe the following precautions: Absorption of visible light can significantly alter the energy transfer occurring in any tandem fluorochrome conjugate; therefore, we recommend that special precautions be taken (such as wrapping vials, tubes, or racks in aluminum foil) to prevent exposure of conjugated reagents, including cells stained with those reagents, to room illumination.
5. PerCP-Cy5.5–labelled antibodies can be used with FITC- and R-PE–labelled reagents in single-laser flow cytometers with no significant spectral overlap of PerCP-Cy5.5, FITC, and R-PE fluorescence.
6. PerCP-Cy5.5 is optimized for use with a single argon ion laser emitting 488-nm light. Because of the broad absorption spectrum of the tandem fluorochrome, extra care must be taken when using dual-laser cytometers, which may directly excite both PerCP and Cy5.5™. We recommend the use of cross-beam compensation during data acquisition or software compensation during data analysis.
7. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at wwwbdbiosciencescom/pc.
8. Cy is a trademark of GE Healthcare.
9. Please refer to wwwbdbiosciencescom/pharmingen/protocols for technical protocols.

References