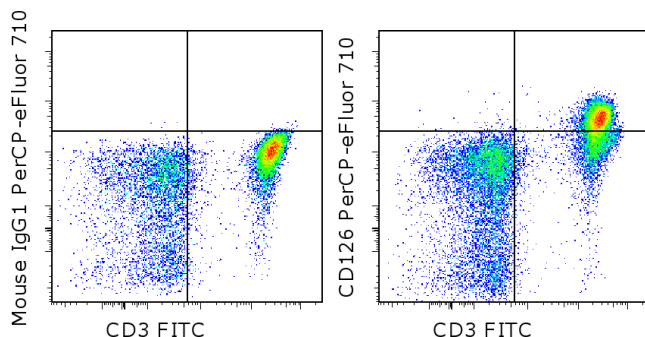


Anti-Human CD126 PerCP-eFluor® 710

Catalog Number: 46-1269

Also known as: Interleukin-6 Receptor alpha, IL-6Ra

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of normal human peripheral blood cells with Anti-Human CD3 FITC (cat. 11-0037) and Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (cat. 46-4714) (left) or Anti-Human CD126 PerCP-eFluor® 710 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD126 PerCP-eFluor® 710



Catalog Number: 46-1269

Clone: 47.7G7.1F2

Concentration: 5 uL (0.06 ug)/test

Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide



Description

This monoclonal antibody 47.7G7.1F2 reacts with human CD126, also known as IL-6 receptor alpha. It associates with the gp130 chain to form the high-affinity receptor for IL-6. Although gp130 is ubiquitously expressed, CD126 is only found on mature T cells, activated B cells, macrophages, hepatocytes, and myeloma cells. Upon binding to IL-6, two heterotrimeric complexes of receptor and ligand associate into a hexamer and are then internalized, initializing Jak/STAT signaling pathways. IL-6 induces the proliferation and survival of T cells, Th2 differentiation, and acute-phase protein production in the liver. A soluble form of CD126 lacking the transmembrane domain is also present and can be generated by cleavage at the cell surface or alternative splicing. Soluble CD126 can bind IL-6 and activate cells expressing only gp130 through trans-presentation.

Applications Reported

This 47.7G7.1F2 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 47.7G7.1F2 antibody has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at 5 µL (0.06 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 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL 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.

Not for further distribution without written consent.

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References

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Rawstron AC, Fenton JA, Ashcroft J, English A, Jones RA, Richards SJ, Pratt G, Owen R, Davies FE, Child JA, Jack AS, Morgan G. The interleukin-6 receptor alpha-chain (CD126) is expressed by neoplastic but not normal plasma cells. Blood. 2000 Dec 1; 96(12): 3880-6.

Betz UA, Muller W. Regulated expression of gp130 and IL-6 receptor alpha chain in T cell maturation and activation. Int Immunol. 1998 Aug; 10(8): 1175-84.

Related Products

11-0037 Anti-Human CD3 FITC (OKT3)

12-1261 Anti-Mouse CD126 PE (D7715A7)

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)

BMS214* Human sIL-6R Platinum ELISA