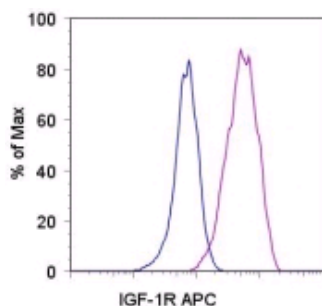


Anti-Human CD221 (Insulin-like Growth Factor-1 Receptor) APC

Catalog Number: 17-8849

Also Known As: IGF-1R

RUO: For Research Use Only



Staining of the HeLa cell line with Mouse IgG1 κ Isotype Control APC (cat. 17-4714) (blue histogram) or Anti-Human CD221 (Insulin-like Growth Factor-1 Receptor) APC (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human CD221 (Insulin-like Growth Factor-1 Receptor) APC


REF Catalog Number: 17-8849

Clone: 1H7


Concentration: 5 μ l (0.25 μ g)/test

Host/Isotype: Mouse IgG1, κ

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.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

Description

This 1H7 monoclonal antibody reacts with human insulin-like growth factor-1 receptor (IGF-1R), also known as CD221. This receptor is a cell surface-expressed glycoprotein composed of two extracellular alpha subunits and two transmembrane beta subunits that possess tyrosine kinase activity. Expressed on nearly all cell types, this receptor binds IGF-I and IGF-II, as well as insulin. Ligand binding leads to activation of the PI3K/Akt and MAPK pathways, which mediate cell proliferation and survival. Many tumors and transformed cells display altered IGF-1R expression.

This monoclonal antibody has been reported to block binding of IGF-I and IGF-II to the IGF-1R.

Applications Reported

This 1H7 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 1H7 antibody has been pre-titrated and tested by flow cytometric analysis of the HeLa cell line. This can be used at 5 μ l (0.25 μ g)/per test. A test is defined as the amount (μ g)/test of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

Chitnis MM, Yuen JS, Protheroe AS, Pollak M, Macaulay VM. The type 1 insulin-like growth factor receptor pathway. Clin Cancer Res. 2008 Oct 15;14(20):6364-70. Review.

Li SL, Kato J, Paz IB, Kasuya J, Fujita-Yamaguchi Y. Two new monoclonal antibodies against the alpha subunit of the human insulin-like growth factor-I receptor. Biochem Biophys Res Commun. 1993 Oct 15;196(1):92-8. (1H7, WB)

Reiss K, Porcu P, Sell C, Pietrzkowski Z, Baserga R. The insulin-like growth factor 1 receptor is required for the proliferation of hemopoietic cells. Oncogene. 1992 Nov;7(11):2243-8.

Related Products

17-4714 Mouse IgG1 K Isotype Control APC

