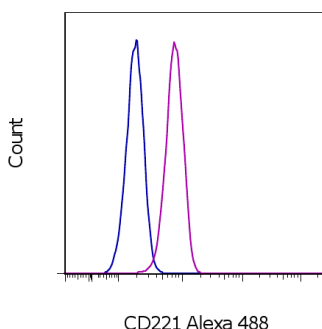


Anti-Human CD221 (Insulin-like Growth Factor-1 Receptor) Alexa Fluor[®] 488

Catalog Number: 53-8849

Also known as: IGF1R

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



Staining of HeLa cells with Mouse IgG1 K Isotype Control Alexa Fluor[®] 488 (cat. 53-4714) (blue histogram) or Anti-Human CD221 (Insulin-like Growth Factor-1 Receptor) Alexa Fluor[®] 488 (purple histogram). Total viable cells were used for analysis.

Product Information



Contents: Anti-Human CD221 (Insulin-like Growth Factor-1 Receptor) Alexa Fluor[®] 488

Catalog Number: 53-8849

Clone: 1H7

Concentration: 5 μ L (0.5 μ g)/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

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 (0.5 μ g) per test. A test is defined as the amount (μ g) 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, Pietrzowski 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.

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Related Products

53-4714 Mouse IgG1 K Isotype Control Alexa Fluor® 488 (P3.6.2.8.1)

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