Technical Data Sheet

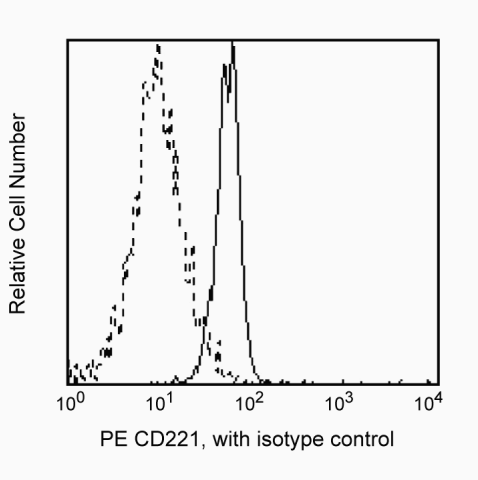
PE Mouse Anti-Human CD221

Product Information

Material Number:	**560934**
Alternate Name:	IGF-I Receptor α
Size:	25 tests
Vol. per Test:	20 µl
Clone:	1H7
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with human insulin-like growth factor-I (IGF-I) receptor α subunit (135 kDa). IGF-IRα is a glycoprotein complex composed of two extracellular α subunits and two transmembrane β subunits. The transmembrane subunits play a role in tyrosine phosphorylation of several intracellular signaling proteins. IGF-IRα is structurally and functionally similar to insulin receptor and is expressed on a variety of human hematopoietic and non-hematopoietic cells. It mediates the effects of IGF-I and IGF-II on cellular growth. 1H7 does not cross react with human insulin receptor and it can block IGF-I or IGF-II stimulated cell growth.



Profile of peripheral blood granulocytes analyzed on a FACScan (BDIS, San Jose, CA)

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.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
555749	PE Mouse IgG1, κ Isotype Control	100 tests	MOPC-21

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 × 10^6 cells in a 100-µl experimental sample (a test).
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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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 refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Kooijman RK, Scholtens LE, Rijkers GT, Zegers BJ. Differential expression of type I insulin-like growth factor receptors in different stages of human T cells. *Eur J Immunol.* 1995; 25(4):931-935. (Biology)

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; 196(1):92-98. (Biology)

Xiong L, Kasuya J, Li SL, Kato J, Fujita-Yamaguchi Y. Growth-stimulatory monoclonal antibodies against human insulin-like growth factor I receptor. *Proc Natl Acad Sci U S A.* 1992; 89(12):5356-5360. (Biology)