Technical Data Sheet

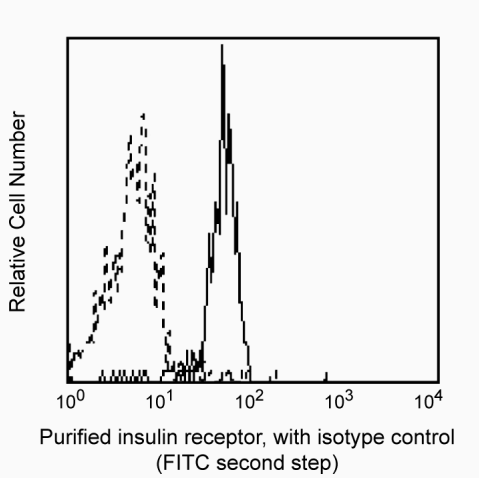
Purified Mouse Anti-Human CD220

Product Information

Material Number:	**559954**
Alternate Name:	Insulin Receptor
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	3B6/IR
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Reacts with insulin receptor (IR), a glycoprotein composed of two extracellular α-subunits (130 kDa) and two transmembrane β-subunits (95 kDa). It is expressed on human hematopoietic and non-hematopoietic cells, but unlike the insulin-like growth factor receptor (IGF-IR), which is ubiquitous, the insulin receptor is restricted to major target tissues of insulin action. Upon binding insulin, the IR subunits form a heterotetramer of two α and two β subunits resulting in autophosphorylation and activation of the tyrosine kinase activity of the receptor. This ligand-receptor interaction is important in regulating cell metabolism and growth. 3B6/IR monoclonal antibody reacts similarly to anti-human IR α, clone 47-9, an α-subunit antibody.



Profile of peripheral blood monocytes analyzed by flow cytometry. *Second step staining with Cat. No. 555988.*

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
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.

References

Brindle NP, Tavare JM, Dickens M, Whittaker J, Siddle K. Anti-(insulin receptor) monoclonal antibody-stimulated tyrosine phosphorylation in cells transfected with human insulin receptor cDNA. *Biochem J.* 1990; 268(3):615-620.(Biology)

Prigent SA, Stanley KK, Siddle K. Identification of epitopes on the human insulin receptor reacting with rabbit polyclonal antisera and mouse monoclonal antibodies. *J Biol Chem.* 1990; 265(17):9970-9979.(Biology)

Soos MA, O'Brien RM, Brindle NP, et al. Monoclonal antibodies to the insulin receptor mimic metabolic effects of insulin but do not stimulate receptor autophosphorylation in transfected NIH 3T3 fibroblasts. *Proc Natl Acad Sci U S A.* 1989; 86(14):5217-5221.(Biology)

Soos MA, Siddle K, Baron MD, et al. Monoclonal antibodies reacting with multiple epitopes on the human insulin receptor. *Biochem J.* 1986; 235(1):199-208. (Biology)