

Product Data Sheet

Purified anti-human CD220

Catalog # / Size: 2363005 / 25 µg
2363010 / 100 µg

Clone: B6.220

Isotype: Mouse IgG2b, κ

Immunogen: Human insulin receptor/freund's adjuvant

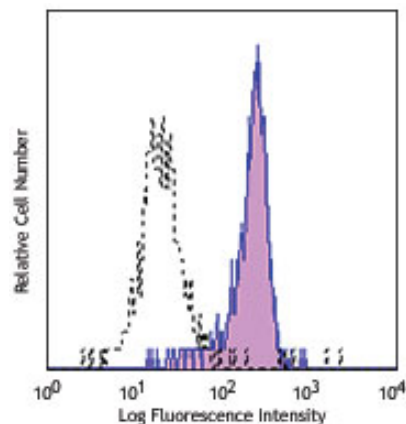
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted between 2°C and 8°C.



Human peripheral blood monocytes were stained with purified CD220 (clone B6.220) (filled histogram) or mouse IgG2b, κ isotype control, followed by biotinylated anti-mouse IgG and Sav-PE (open histogram).

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Description: CD220, also known as insulin receptor, is a type I transmembrane receptor tyrosine kinase composed of two extracellular α-subunits and two transmembrane β-subunits. Binding insulin, the insulin receptor forms a heterotetramer of two units to induce autophosphorylation and activation of the tyrosine kinase activity of the receptor. Activation of insulin receptor leads to subsequent downstream signaling in metabolic regulation, inducing glucose uptake, cell growth, differentiation, and apoptosis. Gene mutation in the insulin receptor or decreased insulin receptor signaling leads to insulin-resistant diabetes mellitus and noninsulin-dependent diabetes mellitus (diabetes mellitus type 2). Most normal cells constitutively express insulin receptors. In hematopoietic cells, insulin receptor is constitutively expressed on monocytes and selectively expressed on activated lymphocytes.

Antigen References:

- Viardot A, *et al.* 2006. *Endocrinology* 148:346.
- Ward CW, *et al.* 2009. *Bioessays* 31:422.
- Brindle NP, *et al.* 1990. *Biochem. J.* 268:615.

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