

PerCP/Cyanine 5.5 Anti-Human CD164 Antibody[67D2]

Catalog Number: AN00872J

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

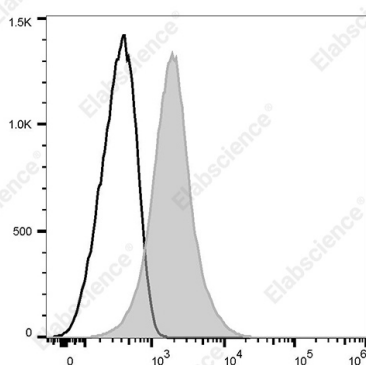
Reactivity	Human
Host	Mouse
Isotype	Mouse IgG1, κ
Clone No.	67D2
Isotype Control	PerCP/Cyanine5.5 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792J]
Conjugation	PerCP/Cyanine 5.5
Conjugation Information	PerCP/Cyanine 5.5 is designed to be excited by the blue laser (488 nm) and detected using an optical filter centered near 675 nm (e.g., a 690/50 nm bandpass filter).
Storage Buffer	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

Applications

Recommended usage

FCM	Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5 μL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.
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Data



Staining of normal human peripheral blood cells with PerCP/Cyanine 5.5 Anti-Human CD164 Antibody[67D2] (filled gray histogram) or PerCP/Cyanine 5.5 Mouse IgG1, κ Isotype Control (empty black histogram). Cells in the monocytes gate were used for analysis.

Preparation & Storage

Storage	Keep as concentrated solution. This product can be stored at 2-8°C for 12 months. Please protected from prolonged exposure to light and do not freeze.
Shipping	Ice bag

Antigen Information

Alternate Names	Sialomucin CD164;MUC-24;multi-glycosylated core protein 24;MGC-24
Uniprot ID	Q04900
Gene ID	8763

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Background

The 67D2 monoclonal antibody recognizes human CD164 also known as sialomucin CD164, MUC-24, and multi-glycosylated core protein 24. CD164 is a single pass transmembrane protein with short cytoplasmic tail that is highly N- and O-glycosylated. This protein contains sialic acid and a Ser-Gly motif that may serve as an attachment for a glycosaminoglycan side chain. Three splice variants of CD164 have been reported with apparent molecular weights ranging between 80-100 kD. CD164 is expressed in bone marrow, bone marrow stromal cells, and CD34+ hematopoietic cells myeloid and erythroid progenitors; and activated basophils. Expression has also been reported on a variety of carcinomas and leukemic cells and in the small intestine, colon, lung, and thyroid. CD164 plays a role in cell adhesion and proliferation and acts as a negative signaling molecule for hematopoietic progenitor cells. CD164 has also been reported to be involved in myogenic differentiation and cancer metastasis. The 67D2 antibody has been shown to be useful for the flow cytometric detection of human CD164, Western blotting under non-reducing conditions (detects an 80-100 kD protein as well as a high molecular weight aggregate of approximately 220 kD), and immunofluorescence.

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