

APC Anti-Human CD163 Antibody[MAC2-158]

Catalog Number: AN00480E

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

Description

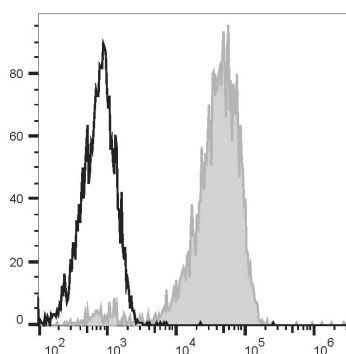
Reactivity	Human
Host	Mouse
Isotype	Mouse IgG1, κ
Clone No.	MAC2-158
Isotype Control	APC Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792E]
Conjugation	APC
Conjugation Information	APC is designed to be excited by the Red (627-640 nm) laser and detected using an optical filter centered near 660 nm (e.g., a 660/20 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 APC Anti-Human CD163 Antibody[MAC2-158](filled gray histogram) or APC Mouse IgG1, κ Isotype Control (empty black histogram). Cells in the lymphocytes gate were used for analysis.

Preparation & Storage

Storage	Keep as concentrated solution. This product can be stored at 2-8°C for 24 months. Please protected from prolonged exposure to light and do not freeze.
Shipping	Ice bag

Antigen Information

Alternate Names	SCAR1;CD163;M130;MM130;SCAR11;ED2(rat);GHI/61;Hemoglobin/Haptoglobin Complex Receptor;macrophage-associated antigen;p155;RM3/1;GHI/61
Gene ID	9332

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Rev. V1.2

Background

CD163 is also known as Scavenger receptor cysteine-rich type 1 protein M130 (M130), SCAR11 (SR-I1), or Hemoglobin scavenger receptor (HbSR). CD163 is an ~130 kDa type I transmembrane glycoprotein comprised of an extracellular domain with nine cysteine-rich (SRCR) scavenger receptor class B domains followed by a transmembrane region and a short cytoplasmic tail. CD163 is expressed on most peripheral blood monocytes, tissue macrophages, and a subset of dendritic cells. CD163 serves as a high affinity receptor for hemoglobin and haptoglobin and mediates endocytosis of hemoglobin and haptoglobin complexes by macrophages. This scavenging function may protect tissues from hemoglobin-mediated oxidative damage and contribute to the uptake and recycling of iron. CD163 can also reportedly bind to (TNF- α)-like weak inducer of the apoptosis (TWEAK) protein and some pathogenic bacteria. A cleaved, soluble form of CD163 can reportedly play an anti-inflammatory role and serve as a marker for macrophage activation in inflammatory responses.