Product datasheet

Anti-CD163 antibody [GHI/61], prediluted (APC) ab134416

1 References  1 图像

概述

产品名称  Anti-CD163抗体[GHI/61], prediluted (APC)
描述  小鼠单克隆抗体[GHI/61] to CD163, prediluted (APC)
宿主  Mouse
偶联物  APC. Ex: 645nm, Em: 660nm
经测试应用  适用于: Flow Cyt, IHC-Fr, WB, IP
种属反应性  与反应: Human
免疫原  Tissue, cells or virus corresponding to Human CD163.
阳性对照  Human blood cells

性能

形式  Liquid
存放说明  Shipped at 4°C. Store at +4°C.
存储溶液  Preservative: 0.1% Sodium azide
          Constituents: 99% PBS, 0.2% BSA
纯度  Size exclusion
纯化说明  Purity >95% by SDS-PAGE.
克隆  单克隆
克隆编号  GHI/61
同种型  IgG1

应用

Our Abpromise guarantee covers the use of ab134416 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Acute phase-regulated receptor involved in clearance and endocytosis of hemoglobin/haptoglobin complexes by macrophages and may thereby protect tissues from free hemoglobin-mediated oxidative damage. May play a role in the uptake and recycling of iron, via endocytosis of hemoglobin/haptoglobin and subsequent breakdown of heme. Binds hemoglobin/haptoglobin complexes in a calcium-dependent and pH-dependent manner. Exhibits a higher affinity for complexes of hemoglobin and multimeric haptoglobin of HP*1F phenotype than for complexes of hemoglobin and dimeric haptoglobin of HP*1S phenotype. Induces a cascade of intracellular signals that involves tyrosine kinase-dependent calcium mobilization, inositol triphosphate production and secretion of IL6 and CSF1. Isoform 3 exhibits the higher capacity for ligand endocytosis and the more pronounced surface expression when expressed in cells. After shedding, the soluble form (sCD163) may play an anti-inflammatory role, and may be a valuable diagnostic parameter for monitoring macrophage activation in inflammatory conditions.

Expressed in monocytes and mature macrophages such as Kupffer cells in the liver, red pulp macrophages in the spleen, cortical macrophages in the thymus, resident bone marrow macrophages and meningeal macrophages of the central nervous system. Expressed also in blood. Isoform 1 is the lowest abundant in the blood. Isoform 2 is the lowest abundant in the liver and the spleen. Isoform 3 is the predominant isoform detected in the blood.

Contains 9 SRCR domains.

The SRCR domain 3 mediates calcium-sensitive interaction with hemoglobin/haptoglobin complexes.

A soluble form (sCD163) is produced by proteolytic shedding which can be induced by lipopolysaccharide, phorbol ester and Fc region of immunoglobulin gamma. This cleavage is dependent on protein kinase C and tyrosine kinases and can be blocked by protease inhibitors. The shedding is inhibited by the tissue inhibitor of metalloproteinase TIMP3, and thus probably induced by membrane-bound metalloproteinases ADAMs. Phosphorylated.

Secreted and Cell membrane. Isoform 1 and isoform 2 show a lower surface expression when expressed in cells.
Surface staining of human peripheral blood using ab134416 at a dilution of 10 µL/100 µL. CD163 was detected on CD14+ monocytes, whereas CD14- lymphocytes were used as a negative control.

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