

CD204 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA2380
Host	Mouse
Isotype	Mouse IgG1
Size	100µL, 50µL
Immunogen	Purified recombinant fragment of human CD204 (AA: extra 275-451) expressed in E. Coli.
Mol wt	49.8kDa
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB,FCM
Concentration	N/A
Full name	N/A
Synonyms	MSR1;SRA;SR-A;SR-AI;phSR1;phSR2;SCARA1;SR-AII;SR-AIII

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

This gene encodes the class A macrophage scavenger receptors, which include three different types (1, 2, 3) generated by alternative splicing of this gene. These receptors or isoforms are macrophage-specific trimeric integral membrane glycoproteins and have been implicated in many macrophage-associated physiological and pathological processes including atherosclerosis, Alzheimer's disease, and host defense. The isoforms type 1 and type 2 are functional receptors and are able to mediate the endocytosis of modified low density lipoproteins (LDLs). The isoform type 3 does not internalize modified LDL (acetyl-LDL) despite having the domain shown to mediate this function in the types 1 and 2 isoforms. It has an altered intracellular processing and is trapped within the endoplasmic reticulum, making it unable to perform endocytosis. The isoform type 3 can inhibit the function of isoforms type 1 and type 2 when co-expressed, indicating a dominant negative effect and suggesting a mechanism for regulation of scavenger receptor activity in macrophages.

Recommended Dilution

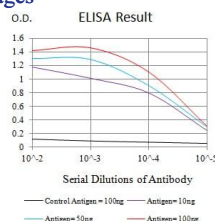
WB: 1:500 - 1:2000

FCM: 1:200 - 1:400

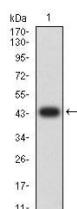
ELISA: 1:10000

Not yet tested in other applications.

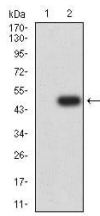
Images



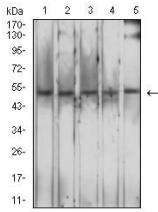
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



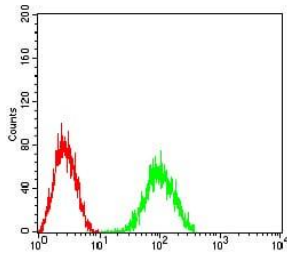
Western blot analysis using CD204 mAb against human CD204 (AA: extra 275-451) recombinant protein. (Expected MW is 44.3 kDa)



Western blot analysis using CD204 mAb against HEK293 (1) and CD204 (AA: extra 275-451)-hlgGFc transfected HEK293 (2) cell lysate.



Western blot analysis using CD204 mouse mAb against PC-2 (1), A549 (2), HepG2 (3), L-02 (4), and PANC-1 (5) cell lysate.



Flow cytometric analysis of HL-60 cells using CD204 mouse mAb (green) and negative control (red).

Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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