

CD204 Rabbit mAb

Catalog No.: A25614 **Recombinant**

Basic Information

Observed MW

Refer to figures

Calculated MW

40kDa/43kDa/50kDa

Category

Primary antibody

Applications

ELISA,IHC-P,FC

Cross-Reactivity

Human

CloneNo number

ARC66058

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 Dilutions

IHC-P	1:50 - 1:200
FC	1:500 - 1:1000

Immunogen Information

Gene ID

4481

Swiss Prot

P21757

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 77-451 of human CD204 (NP_619729.1).

Synonyms

SRA; SR-A; CD204; SR-AI; phSR1; phSR2; SCARA1; SR-AII; SR-AIII

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

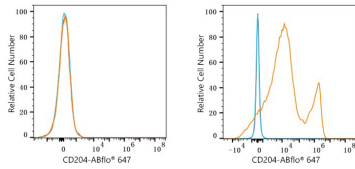
Affinity purification

Storage

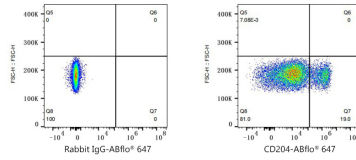
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

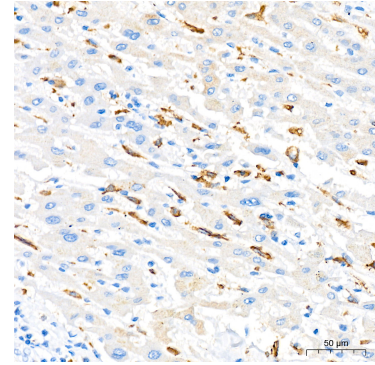
Validation Data



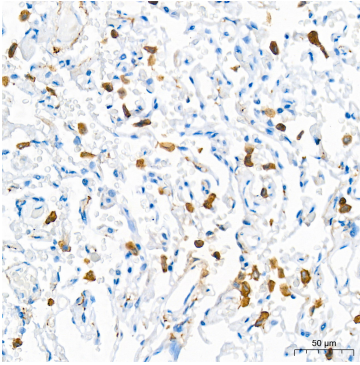
Flow cytometry: 1×10^6 293T cells (negative control, left) and 293T (Transfection, right) cells were surface-stained with CD204 Rabbit mAb (A25614, 2 $\mu\text{g}/\text{mL}$, orange line) or Rabbit IgG isotype control (AC042, 2 $\mu\text{g}/\text{mL}$, blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1×10^6 293T (Transfection) cells were surface-stained with Rabbit IgG isotype control (AC042, 2 $\mu\text{g}/\text{mL}$, left) or CD204 Rabbit mAb (A25614, 2 $\mu\text{g}/\text{mL}$, right), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining.



Immunohistochemistry analysis of CD204 in paraffin-embedded Human liver tissue using CD204 Rabbit mAb (A25614) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of CD204 in paraffin-embedded Human lung tissue using CD204 Rabbit mAb (A25614) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.