

Recombinant Human CD68 protein, Fc-tagged

Cat. No. CD68-312H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD68 protein (Asn22-Ser319), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	298
Description	CD antigen CD68 is also known as Macrosialin, Gp110, which belongs to the LAMP family. CD68/Macrosialin is highly expressed by blood monocytes and tissue macrophages. Also expressed in lymphocytes, fibroblasts and endothelial cells. Expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium, facilitating their dissemination to secondary sites. CD68/Macrosialin could play a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. CD68/Macrosialin binds to tissue- and organ-specific lectins or selectins, allowing homing of macrophage subsets to particular sites. Rapid recirculation of CD68 from endosomes and lysosomes to the plasma membrane may allow macrophages to crawl over selectin-bearing substrates or other cells.
Form	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 59.2 kDa. The protein migrates as 110-120 kDa

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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD68
Official Symbol	CD68
Synonyms	CD68; CD68 molecule; CD68 antigen; macrosialin; DKFZp686M18236; GP110; LAMP4; macrophage antigen CD68; SCARD1; scavenger receptor class D; member 1; scavenger receptor class D, member 1
Gene ID	968
mRNA Refseq	NM_001040059
Protein Refseq	NP_001035148

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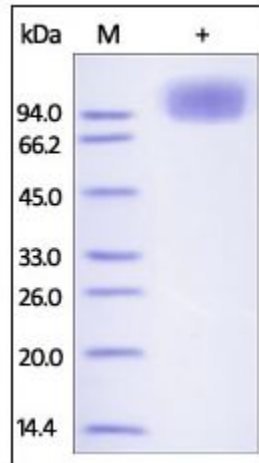
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MIM 153634

UniProt ID P34810

SDS-PAGE of CD68-312H



Human CD68, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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