

Recombinant Human CD68 Protein, His-tagged

Cat. No. CD68-1216H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD68 Protein (Asn22-Ser319) with His tag was expressed in 293F.
Species	Human
Source	HEK293
ProteinLength	Asn22-Ser319
Description	This gene encodes a 110-kD transmembrane glycoprotein that is highly expressed by human monocytes and tissue macrophages. It is a member of the lysosomal/endosomal-associated membrane glycoprotein (LAMP) family. The protein primarily localizes to lysosomes and endosomes with a smaller fraction circulating to the cell surface. It is a type I integral membrane protein with a heavily glycosylated extracellular domain and binds to tissue- and organ-specific lectins or selectins. The protein is also a member of the scavenger receptor family. Scavenger receptors typically function to clear cellular debris, promote phagocytosis, and mediate the recruitment and activation of macrophages. Alternative splicing results in multiple transcripts encoding different isoforms.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.2 kDa; Accurate Molecular Mass: 60-80 kDa
Purity	> 95%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CD68 CD68 molecule [Homo sapiens (human)]
Official Symbol	CD68
Synonyms	CD68; CD68 molecule; GP110; LAMP4; SCARD1; macrosialin; CD68 antigen; macrophage antigen CD68; scavenger receptor class D, member 1
Gene ID	968
mRNA Refseq	NM_001040059
Protein Refseq	NP_001035148

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MIM	153634
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UniProt ID	P34810
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