

Recombinant Human CD68 protein

Cat. No. CD68-33H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CD68 protein, fused to His-tag at N-terminus, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	22-319aa
Description	<p>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.</p>
Form	Liquid
AASequence	<p>NDCPHKKSATLLPSFTVPTVTESTGTTSHRTTKSHKTTTHRTTTTGTTSHGPTTAT HNPTTTSHGNVTVHPTSNSTATSQGPSTATHSPATTSHGNATVHPTSNSTATSPGF TSSAHPEPPPPSPSPSPTSKETIGDYWTNGSQPCVHLQAQIQIRVMYTTQGGGEA</p>

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WGISVLNPNKTKVQGSCEGAHPHLLLSFPYGHLSFGFMQDLQQKVVYLSYMAVEYN
 VSFPHAAQWTFSAQNASLRDLQAPLGQSFSCSNSSIILSPAVHLDLLSLRLQAAQLP
 HTGVFGQSFSCPSDRS

Molecular Mass 34.1 kDa (323aa)

Purity > 85% by SDS-PAGE

Application SDS-PAGE, Denatured

Note For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Storage Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

Storage Buffer 20mM Tris-HCl buffer (pH 8.0) containing 1M urea, 10% glycerol, 0.1M NaCl

Concentration 1 mg/mL (determined by Bradford assay)

Reference 1. Holness CL., et al. (1993) Blood. 81(6):1607-13. 2. Shun CT., et al. (2009) J Infect Dis. 199:1488-1496

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

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Gene ID	968
mRNA Refseq	NM_001251
Protein Refseq	NP_001242
MIM	153634
UniProt ID	P34810

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