

CD68 Protein, Rat (HEK293, His)

Cat. No.:	HY-P74276
Synonyms:	CD68 antigenmacrophage antigen CD68; CD68; Gp110; Macrosialin; SRD1
Species:	Rat
Source:	HEK293
Accession:	Q4FZY1 (K20-S295)
Gene ID:	287435
Molecular Weight:	Approximately 60-110 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<p>K D C P H K K A A T L L P S F T E T P T T T G S T A S P T T T H R P T T T S H R</p> <p>P T T T S H R P T T T S H R P T T T S H R P T T T S H R P T T T S H G N A T V S</p> <p>P T T N S P G F S T V G P H P G P P P P S P S P S P S S T G A L G N Y T W T N G</p> <p>S Q P C V Q L Q A Q I Q I R I L Y L T Q G G K K A W G L S V L N P N K T K V Q G</p> <p>G C D S A H P H L A L S F P Y G Q L T F G F K Q D R H Q S H S T V Y L N Y M A V</p> <p>E Y N V S F P Q A A Q W T F S A Q N S S L Q E L Q A P L G Q S F C C G N T S I V</p> <p>L S P A I H L D L L S L R L Q A A Q L P D K G H F G P C F S C A S D Q S</p>
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Rat S100A8 is immobilized at 10 µg/mL (100 µL/well) can bind Recombinant Rat CD68 Protein. The ED ₅₀ for this effect is 9.492 µg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD68 is a protein that belongs to the LAMP (lysosome-associated membrane protein) family. It is primarily expressed in macrophages, monocytes, and dendritic cells, serving as a marker for these immune cells. CD68 is localized to the
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lysosomes, which are cellular organelles responsible for the degradation of various molecules. As a lysosomal protein, CD68 plays a crucial role in the processing and presentation of antigens by macrophages and dendritic cells. It is involved in phagocytosis, the process by which these immune cells engulf and digest foreign particles, such as bacteria and cellular debris. CD68 is also implicated in inflammation and tissue remodeling, as its expression can be upregulated in response to inflammatory stimuli. Furthermore, CD68 has been identified as a potential biomarker in certain diseases, including cancer, where its expression is associated with tumor progression and poor prognosis. Understanding the functions and implications of CD68 could provide valuable insights into immune responses and disease pathogenesis.

Caution: Product has not been fully validated for medical applications. For research use only.

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