

For Research Use Only

Recombinant Rat CD68 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg1462

Basic Information

Species:
Rat

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Rat CD68 protein Lys20-Ser295 (Accession# Q4FZY1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
287435

Accession:
Q4FZY1

Predicted Molecular Mass:
55.8 kDa

SDS-PAGE:
70-125 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD68, also known as GP110, LAMP4, or SCARD1, is widely expressed in monocyte cell types, such as macrophages, microglia, and osteoclasts. CD68 belongs to the lysosome-associated membrane protein (LAMP) family and is involved in various cellular processes such as autophagy, lipid transport, and aging. Additionally, CD68 is also a member of the scavenger receptor family and plays a critical role in promoting phagocytosis, which is essential for the clearance of cellular debris, pathogens, and the maintenance of tissue homeostasis. CD68 is also a pan-macrophage marker and is the most commonly used universal marker for the identification and quantification of tumor-associated macrophages (TAMs).

References

1. Zhang J, et al. (2022). Sci Rep. 12(1):7844.
2. Wilke S, et al. (2012). BMC Biol. 10:62.
3. Song J, et al. (2023). Pathol Res Pract. 249:154739.

Synonyms

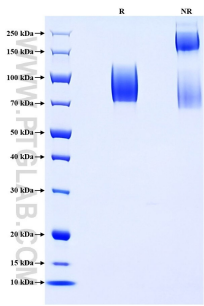
CD68 Antigen, Cd68 molecule

For technical support and original validation data for this product please contact

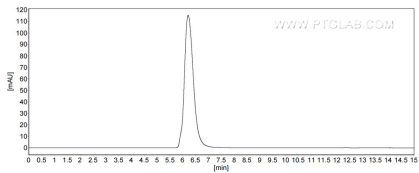
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Selected Validation Data



Purity of Recombinant Rat CD68 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Rat CD68 was greater than 90% as determined by SEC-HPLC.