

Recombinant Protein Technical Manual Recombinant Rat CD68/Macrosialin Protein (Fc Tag) RPES4629

Product Data:

Product SKU: RPES4629	Size: 20µg
Species: Rat	Expression host: HEK293 Cells

Uniprot: Q4FZY1

Protein Information:	
Molecular Mass:	56.5 kDa
AP Molecular Mass:	8717 kDa
Tag:	C-Fc
Bio-activity:	
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU per μg of the protein as determined by the LAL method
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from sterile PBS, pH 7.4
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	CD68

Sequence: Met1-Ser295

Background:

Macrosialin, also known as CD68 and Gp110, is a single-pass type I membrane protein which belongs to the LAMP family. CD68 is highly expressed by blood monocytes and tissue macrophages. It is also expressed in lymphocytes, fibroblasts and endothelial cells. CD68 is expressed in many tumor cell lines which could allow them to attach to selectins on vascular endothelium, facilitating their dissemination to secondary sites. CD68 plays a role in phagocytic activities of tissue macrophages, both in intracellular lysosomal metabolism and extracellular cell-cell and cell-pathogen interactions. It is a commonly used marker for macrophages. However, a number of studies have shown that CD68 antibodies react with other hematopoietic and nonhematopoietic cell types, suggesting that CD68 may not be a 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.