

重组人 CD38 蛋白说明书

产品名称

产品名称: 重组人 CD38 蛋白
英文名称: Recombinant Human CD38 Protein
产品货号: GMP-TL687

产品信息

表达宿主: 人 HEK293 细胞
来源: 人
同义词: ADPRC 1, ADPRC1, T10, cADPr hydrolase 1
蛋白序列: DNA 序列编码人 CD38 (UniProtKB/Swiss-Prot:Q01973) 表达带有 Fc 标签在 C 末端。
分子量: 重组人 CD38 蛋白包含 489 个氨基酸, 预测理论分子量为 56.8kd。
纯度: $\geq 95\%$ 采用 SDS-PAGE 凝胶和高效液相色谱分析。
内毒素: $< 0.1\text{EU}/\mu\text{g}$
生物活性: 固定人 CD38 (Fc Tag) at 1 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) 能够结合人源化抗 CD38 抗体的线性范围是 1-5ng/mL。
提纯方法: 层析纯化
组成: 含有 6%甘露醇的无菌 PBS (PH 7.4) 的冻干粉。

储存条件

冻干制剂可在 4°C 保存 24 个月, 溶解后的液体可置于 -20°C 保存 6-12 个月, 避免反复冻融。

作用机理

CD antigen CD38 is also known as ADP-ribosyl cyclase 1, which belongs to the ADP-ribosyl cyclase family. CD38 is expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma. CD38 is a multifunctional ectoenzyme that catalyzes the synthesis and hydrolysis of cyclic ADP-ribose (cADPR) from NAD⁺ to ADP-ribose. These reaction products are essential for the regulation of intracellular Ca²⁺. The loss of CD38 function is associated with impaired immune responses, metabolic disturbances, and behavioral modifications. The CD38 protein is a marker of cell activation. It has been connected to HIV infection, leukemias, myelomas, solid tumors, type II diabetes mellitus and bone metabolism. CD38 has been used as a prognostic marker in leukemia.

参考文献

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2. Characterization of CD38 in the major cell types of the heart: endothelial cells highly express CD38 with activation by hypoxia-reoxygenation triggering NAD(P)H depletion. James Boslett, Craig Hemann, Fedias L. Christofi, Jay L. Zweier *Am J Physiol Cell Physiol*. 2018 Mar 1; 314(3): C297-C309. Published online 2017 Nov 29. doi: 10.1152/ajpcell.00139.2017