

重组人 TIGIT 蛋白说明书

产品描述

产品名称: 重组人 TIGIT 蛋白 (Recombinant Human TIGIT Protein)

产品编号: TL-730

表达宿主: 人 HEK293 细胞

来源: 人

同义词: VSIG9, VSTM3

产品信息

蛋白序列: DNA 序列编码人 TIGIT (NCBI Reference Sequence: NP_776160.2) 表达带有 Fc 标签在 C 末端。

分子量: 重组人 TIGIT 蛋白 包含 351 个氨基酸, 预测理论分子量为 40kd。

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 CD155 (His 标签) 的浓度是 $10 \mu\text{g/mL}$ ($100 \mu\text{L}/\text{孔}$) 能够结合 TIGIT (Fc 标签) 的线性范围是 $15\text{--}500 \text{ ng/mL}$ 。

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。

使用说明

稳定性和储存: 冻干的样本的可以在 4°C 保存 24 个月, 溶解后的液体可以于 -20°C 保存 6-12 个月, 并且避免反复冻融。

作用机理

T-cell immunoreceptor with Ig and ITIM domains (TIGIT) is also known as V-set and immunoglobulin domain-containing protein 9 (VSIG9), V-set and transmembrane domain-containing protein 3 (VSTM3), which belongs to single-pass type I membrane protein containing an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM). TIGIT is expressed at low levels on peripheral memory and regulatory CD4⁺ T-cells and NK cells and is up-regulated following activation of these cells (at protein level). TIGIT binds with high affinity to the poliovirus receptor (PVR) which causes increased secretion of IL10 and decreased secretion of IL12B and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells.

参考文献

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2. TIGIT predominantly regulates the immune response via regulatory T cells Sema Kurtulus, Kaori Sakuishi, Shin-Foong Ngiow, Nicole Joller, Dewar J. Tan, Michele W.L. Teng, Mark J. Smyth, Vijay K. Kuchroo, Ana C. Anderson J Clin Invest. 2015 Nov 2; 125(11): 4053-4062. Published online 2015 Sep 28. doi: 10.1172/JCI81187

