



维根生物科技有限公司

Vigen Biotechnology (Zhenjiang) Co., Ltd

VigenCAR®

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## hCAR·EGFR-GFP-T Cell

### 一、产品信息

产品编号	产品名称	产品规格
VGT-1956-18C8	hCAR·EGFR-GFP-T 细胞	1 × 10 <sup>7</sup> 细胞

### 二、产品介绍

<b>Generation</b>	Second
<b>Receptor Construction</b>	Anti EGFR scFv -hCD28-hCD3ζ
<b>Marker</b>	CAR-2A-GFP
<b>Vector Type/Length</b>	Retrovirus / 9 kb
<b>Discription of Signaling Cassetes</b>	<p><b>CD28:</b></p> <p>CD28 (Cluster of Differentiation 28) is one of the proteins expressed on T cells that provide co-stimulatory signals required for T cell activation and survival. CD28 is the receptor for CD80 (B7.1) and CD86 (B7.2) proteins which are expressed on antigen-presenting cells(APC). CD28 modulates the primary TCR/CD3ζ signal in a different fashion than the late costimulatory elements OX40 and 4-1BB. CD28 enhances the expression of downstream regulators that impact on T-cell proliferation, death, differentiation, and effector functions. CAR+ T cells containing the CD28 endodomain showed strikingly enhanced sustained T cell activation, growth, survival. And CD28 results in a brightly expressed, stable receptor as the transmembrane domain. Including CD28 costimulatory domains in CARs led to enhanced anti-malignancy efficacy.</p>



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	<p><b>CD3ζ:</b></p> <p>CD3ζ, also known as T-cell receptor zeta, which together with T-cell receptor and CD3γ, δ , ε chain, forms the TCR-CD3 complex. ζ was expressed independently from the complex. The zeta chain plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. CD3-zeta, which contains 3 ITAMs, is the most commonly used endodomain component of CARs. It transmits an activation signal to the T cell after antigen is bound. CD3-zeta may not provide a fully competent activation signal and additional co-stimulatory signaling is needed. For example, chimeric CD28 and OX40 can be used with CD3-zeta to transmit a proliferative/survival signal, or all three can be used together.</p>
<b>Effector cell type</b>	T cell (human)
<b>Target</b>	EGFR
<b>Synonyms</b>	ERBB; ERBB1; ERBB2; HER1; mENA; NISBD2; PIG61
<b>Target Gene ID</b>	1956
<b>Targeting Diseases</b>	A number of cancers, including squamous-cell carcinoma of the lung (80% of cases), anal cancers, glioblastoma (50%) and epithelial tumors of the head and neck (80-100%).

### 三、产品组分

组分编号	组分名称	产品规格
VGT-1956-18C8	hCAR-EGFR-GFP-T 细胞	1 × 10 <sup>7</sup> 细胞
VGT-0000-18A4	nATC 细胞 (活化 T 细胞)	1 × 10 <sup>7</sup> 细胞
VGA-0013-0100	人 T 细胞完全培养基	100 mL



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VGA-0036-0200	重组人 IL-2 溶液 (1000x)	100 μL
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### 运输与保存:

干冰运输。收到后如不立即复苏, 请立即转入-80°C 保存或液氮储存。

## 四、细胞质检

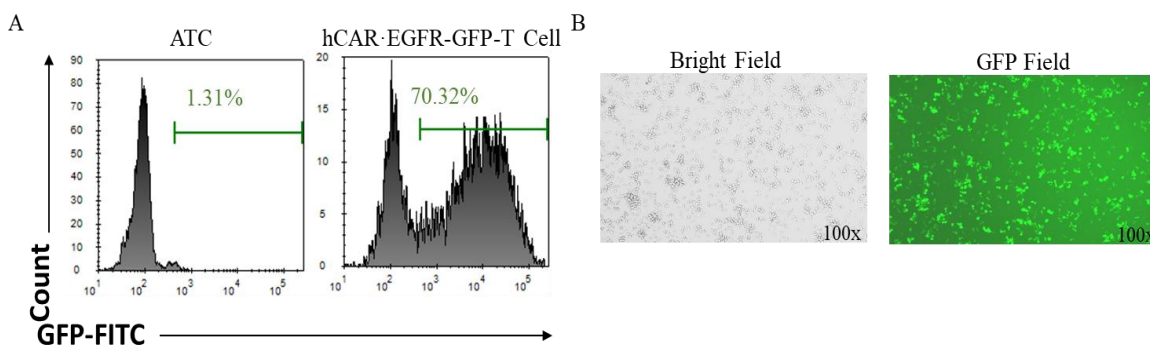


Fig.1 CART 细胞转导率检测

A、FACS 检测 GFP 阳性率; B、荧光显微镜检测 GFP 表达

(备注: 由于 PBMC 来源不同, 导致 GFP 阳性率批次之间不同, 通常在 30~50%之间。)

## 五、限制性使用许可

- 1) 本产品仅供购买方单方使用, 不得向任何第三方赠送、转让或销售;
- 2) 本产品仅供实验室和体外研究使用, 不能用于任何临床检验、诊断、治疗, 或任何非法用途;
- 3) 收货 48 h 内如若发现异常, 请及时联系售后, 逾期视为收货良好;
- 4) 请严格按照本说明书操作, 否则造成细胞失活等情形, 不予提供补发服务。

