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Data Sheet

FcGR11A (CD16a) Lentivirus

Catalog #: 79876

Product Description

Fc Gamma Receptor IIIa (FcGR11A; FcγRIIIA), also known as CD16a, is a low/intermediate affinity receptor for polyvalent immune-complexed IgG. It is involved in phagocytosis, antibody-dependent cytotoxicity and clearance of immune complexes. The human FcγRIIIa displays a dimorphism in the position of residue 158. One allele (V158) encodes a higher Fc affinity receptor variant with a valine at amino acid residue 158, and the other (F158) encodes a lower Fc affinity receptor variant having a phenylalanine at amino acid residue 158.

The FcGR11A Lentivirus are replication incompetent, HIV-based, VSV-G pseudotyped lentiviral particles that are ready to be transduced into almost all types mammalian cells, including primary and non-dividing cells. The particles contain a FcGR11A gene (NM_001127593.1; high affinity V158 variant) driven by a CMV promoter (Figure 1).

Application

1. Transient expression of FcGR11A in target cells.
2. Generation of stable cell line expressing FcGR11A with Geneticin (G418) selection.

Formulation

The lentiviruses were produced from HEK293T cells in the medium containing 90% DMEM + 10% FBS.

Titer

Two vials (500 µl x 2) of lentivirus at a titer $\geq 5 \times 10^6$ TU/ml. The titer will vary with each lot; the exact value is provided with each shipment.

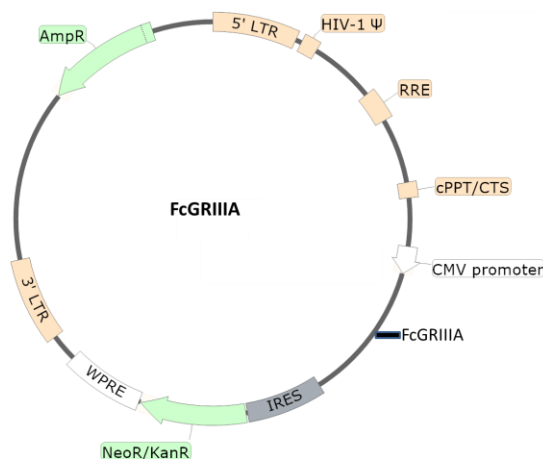


Figure 1. Schematic of the lenti-vector used to generate the FcGR11A lentivirus

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Storage

Lentiviruses are shipped with dry ice. For long term storage, it is recommended to store the virus at -80°C . Avoid repeated freeze-thaw cycles. Titers can drop significantly with each freeze-thaw cycle.

Biosafety

None of the HIV genes (gag, pol, rev) will be expressed in the transduced cells, as they are expressed from packaging plasmids lacking the packing signal. Although the pseudotyped lentiviruses are replication-incompetent, they require the use of a Biosafety Level 2 facility. BPS recommends following all local federal, state, and institutional regulations and using all appropriate safety precautions.

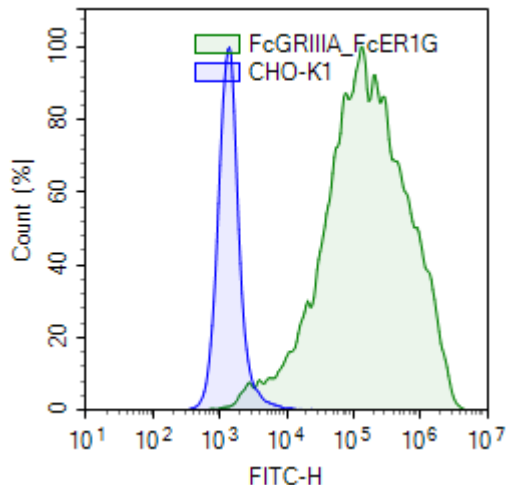


Figure 2. The expression of FcGR11A in CHO-K1 cells co-transduced with FcGR11A and FcER1G lentiviruses. A. Approximately 500,000 cells/well (6-well culture plate) were co-transduced with 1,000,000 TU/well FcGR11A and 1,000,000 TU/well FcER1G lentivirus (BPS#79878) in the presence of 5 $\mu\text{g}/\text{mL}$ of polybrene. After 52 hours of transduction, the cells were switched into Growth Medium 3G (BPS Bioscience #79882) which contains 1000 $\mu\text{g}/\text{ml}$ Geneticin (for FcGR11A) and 5 $\mu\text{g}/\text{ml}$ Puromycin (for FcER1G) for one week, and the antibiotic-resistant cell pool were analyzed by FACS using FITC-labeled anti-FcGR11A (BD Bioscience, #555406). Blue, CHO-K1 parental cells; Green, CHO-K1 cells transduced with FcGR11A and FcER1G lentivirus. Note: the expression of accessory protein FcER1G is required for the cell surface expression of FcGR11A. No surface expression of FcGR11A is detected by FACS in CHO cells transduced with FcGR11A lentivirus alone (data not shown).

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Related Products

| <u>Product</u> | <u>Cat. #</u> | <u>Size</u> |
|---|----------------------|--------------------|
| NFκB Luciferase Reporter Lentivirus | 79564 | 500 µl x2 |
| CRE Luciferase Reporter Lentivirus | 79580 | 500 µl x2 |
| NFAT Luciferase Reporter Lentivirus | 79579 | 500 µl x2 |
| STAT3 Luciferase Reporter Lentivirus | 79744 | 500 µl x2 |
| STAT5 Luciferase Reporter Lentivirus | 79745 | 500 µl x2 |
| TCF/LEF Luciferase Reporter Lentivirus | 79787 | 500 µl x2 |
| ISRE Luciferase Reporter Lentivirus | 79824 | 500 µl x2 |
| IL-2 Promoter Luciferase Reporter Lentivirus | 79825 | 500 µl x2 |
| IL-8 Promoter Luciferase Reporter Lentivirus | 79827 | 500 µl x2 |
| AP-1 Luciferase Reporter Lentivirus | 79823 | 500 µl x2 |
| SBE Luciferase Reporter Lentivirus | 79806 | 500 µl x2 |
| TEAD Luciferase Reporter Lentivirus | 79833 | 500 µl x2 |
| ARE Luciferase Reporter Lentivirus | 79869 | 500 µl x2 |
| Negative Control Lentivirus | 79578 | 500 µl x2 |
| Renilla Luciferase (Rluc) Lentivirus | 79565 | 500 µl x2 |
| Firefly Luciferase (Fluc) Lentivirus (G418) | 79692-G | 500 µl x2 |
| Firefly Luciferase (Fluc) Lentivirus (Hygromycin) | 79692-H | 500 µl x2 |
| Firefly Luciferase (Fluc) Lentivirus (Puromycin) | 79692-P | 500 µl x2 |
| FcGR1IB Lentivirus | 79877 | 500 µl x2 |
| FcER1G Lentivirus | 79878 | 500 µl x2 |

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