

Supplemental Figure

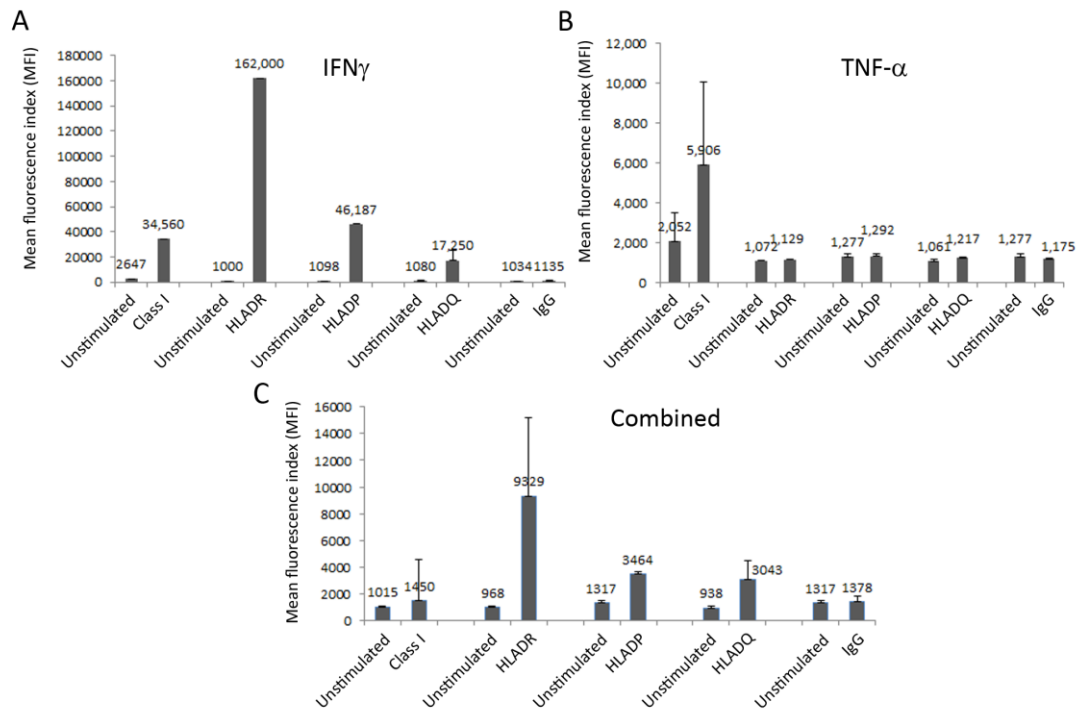


Figure S1. Median Fluorescence Index of HLA Class I-A,B,C and Class II expression in HTCEC for control (unstimulated) and stimulated populations under cytokines treatment at 10 ng/ml for 3 days (N=3). Treatment by (A) Interferon- γ alone (B) Tumour necrosis- α alone (C) combined treatment. Results are from two biological replicates.

Supplemental Tables

Table S1. Antibodies used in flow cytometry and ICC.

| Antibody | Dilution | Supplier |
|---|----------|--|
| PRIMARY | | |
| Mouse monoclonal FITC anti-human HLA-DR (Clone L243) | 1:20 | Biologend |
| Mouse monoclonal FITC anti-human HLA-A,B,C (Clone W 6/32) | 1:20 | Biologend |
| Mouse FITC anti-human HLA-DQ (Clone HLADQ1) | 1:20 | Biologend |
| Mouse monoclonal Anti-human HLA-DP (Clone HI43) | 1:20 | Abd Serotec |
| Mouse monoclonal anti-human CXCR4 (clone 44716.111) | 1:100 | R & D Systems |
| Mouse monoclonal anti-human ABCB5 (clone 5H3C6) | 1:100 | Abcam |
| Rabbit polyclonal anti-human ABCG2 | 1:100 | Novus Biologicals |
| Mouse monoclonal anti-human NANOG (NNG-811) | 1:100 | Abcam |
| SECONDARY | | |
| Goat anti-mouse FITC-conjugated IgG | 1:25 | Jackson Immunology Research Laboratories |
| Goat anti-rabbit FITC-conjugated IgG | 1:25 | Jackson Immunology Research Laboratories |

Table S2. Oligonucleotides primers and amplification conditions.

| Gene | Primers | Sequences | Product Length (bp) | Amplification Cycles | Annealing temperature °C |
|---------------------------------|--------------------|--|---------------------|----------------------|--------------------------|
| LIMBAL STEM CELL MARKERS | | | | | |
| p63 | Forward Reverse | GTGATGATGGTTCACGTTGG ACATGACGTCGGGTGTTTT | 143 | 35 | 55 |
| CK3 | Forward Reverse | GGATGTGGACAGTGCCTATATG AGATAGCTCAGCGTCGTAGAG | 145 | 35 | 53 |
| ABCG2 | Forward Reverse | GCGTGCTGTGCCCACTCAAA AGCATGTGCACGGTGCGTTC | 143 | 35 | 55 |
| C/EBPδ | Forward Reverse | ACTCAGCAACGACCCATACC CGCTCCTATGTCCAAGAAA | 111 | 35 | 55 |
| Connexin 43 | Forward Reverse | ATGAGCAGTCTGCCTTTCGT TCTGCTTCAAGTGCATGTCC | 249 | 35 | 53.4 |
| Bmi-1 | Forward Reverse | CTGGAGAAGGAATGGTCCAC GCCTTGCTACTCCCAGAGTC | 132 | 35 | 51.7 |
| ABCB5* Hs 02889060_m1 | | N/A | 98 | 35 | 55 |
| GAPDH | Forward Reverse | ATG GGG AAG GTG AAG GTC G TAA AAG CAG CCC TGG TGA CC | 100 | 35 | 55 |
| STEM CELL ANTIGENS | | | | | |
| Sox2 | Forward Reverse | AAC CCC AAG ATG CAC AAC TC GCT TAG CCT CGT CGA TGA AC | 100 | 35 | 54 |
| Oct 4 | Forward Reverse | AGT GAG AGG CAA CCT GGA GA ACA CTC GGA CCA CAT CCT TC | 110 | 30 | 54 |
| NANOG | Forward Reverse | TTC CTT CCT CCA TGG ATC TG TCT GCT GGA GGC TGA GGT AT | 213 | 35 | 53.1 |

*Taqman probe [Applied Biosystems].

Table S3. Statistics for image quantification analysis (signal intensities) of CXCR4 and ABCB5 expression in limbal SP and NSP in HTCEC.

| | N | Mean signal intensity | ± SD | *P value |
|--------------|-----|--------------------------|------|----------|
| CXCR4 | | | | |
| - SP | 46 | 18.16 | 7.21 | 0.00 |
| - NSP | 40 | 8.90 | 3.48 | |
| ABCB5 | | | | |
| - SP | 160 | 26.34 | 8.70 | 0.02 |
| - NSP | 160 | 24.16 | 8.07 | |

*Independent t-test.