

Fig. 1

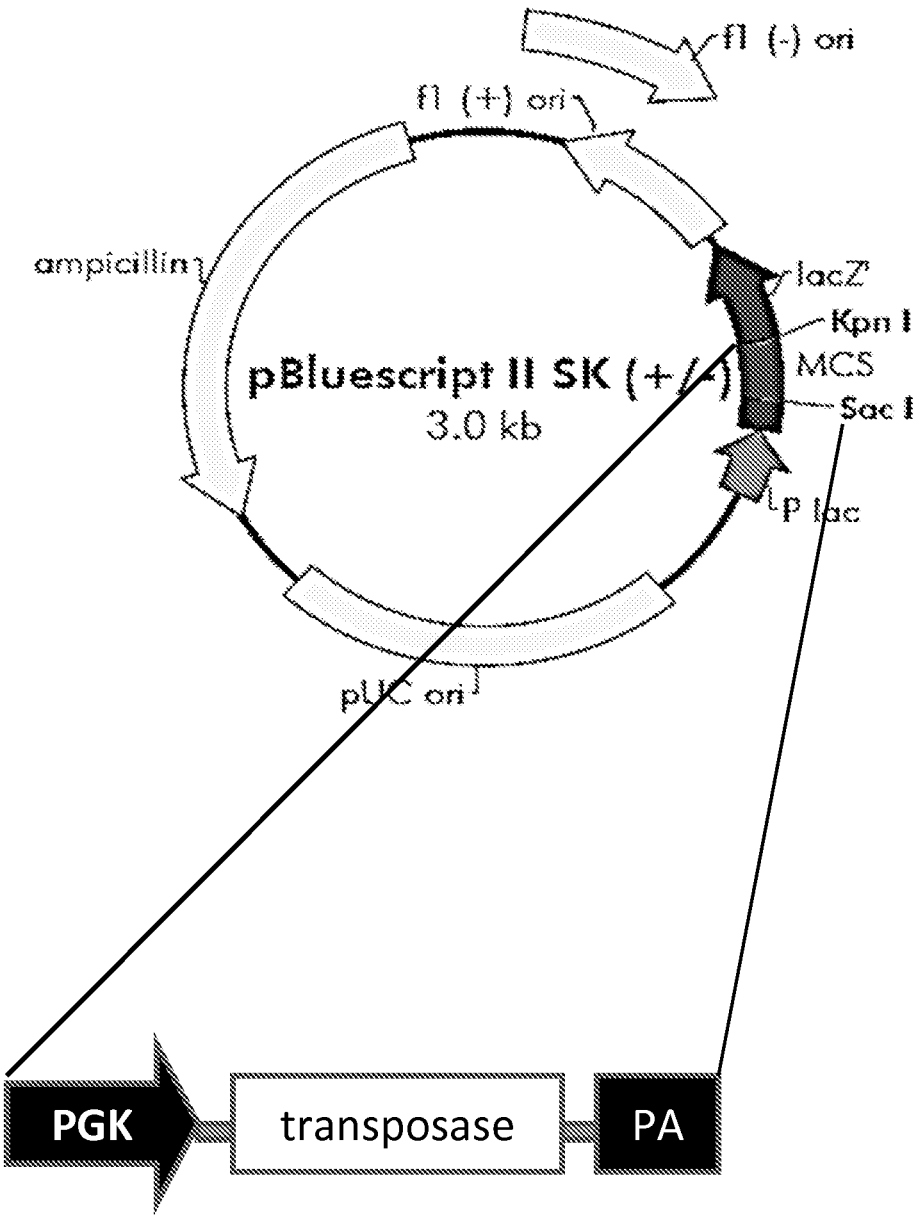

f1 (-) ori
f1 (+) ori
ampicillin
lacZ'
Kpn I
MCS
Sac I
pBluescript II SK (+/-)
3.0 kb
P lac
pUC ori
PGK
transposase
PA

Fig. 2

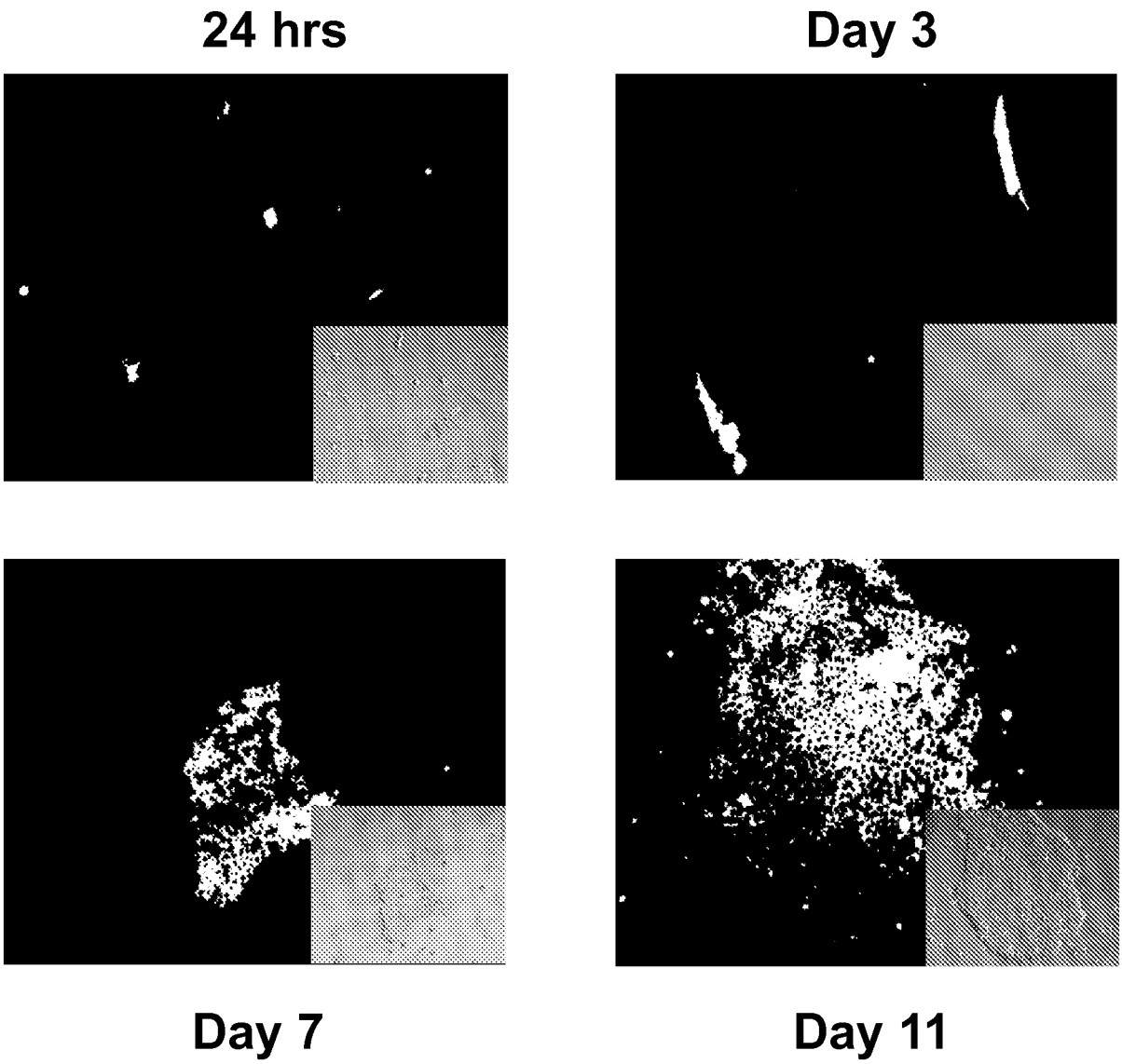


Fig. 3

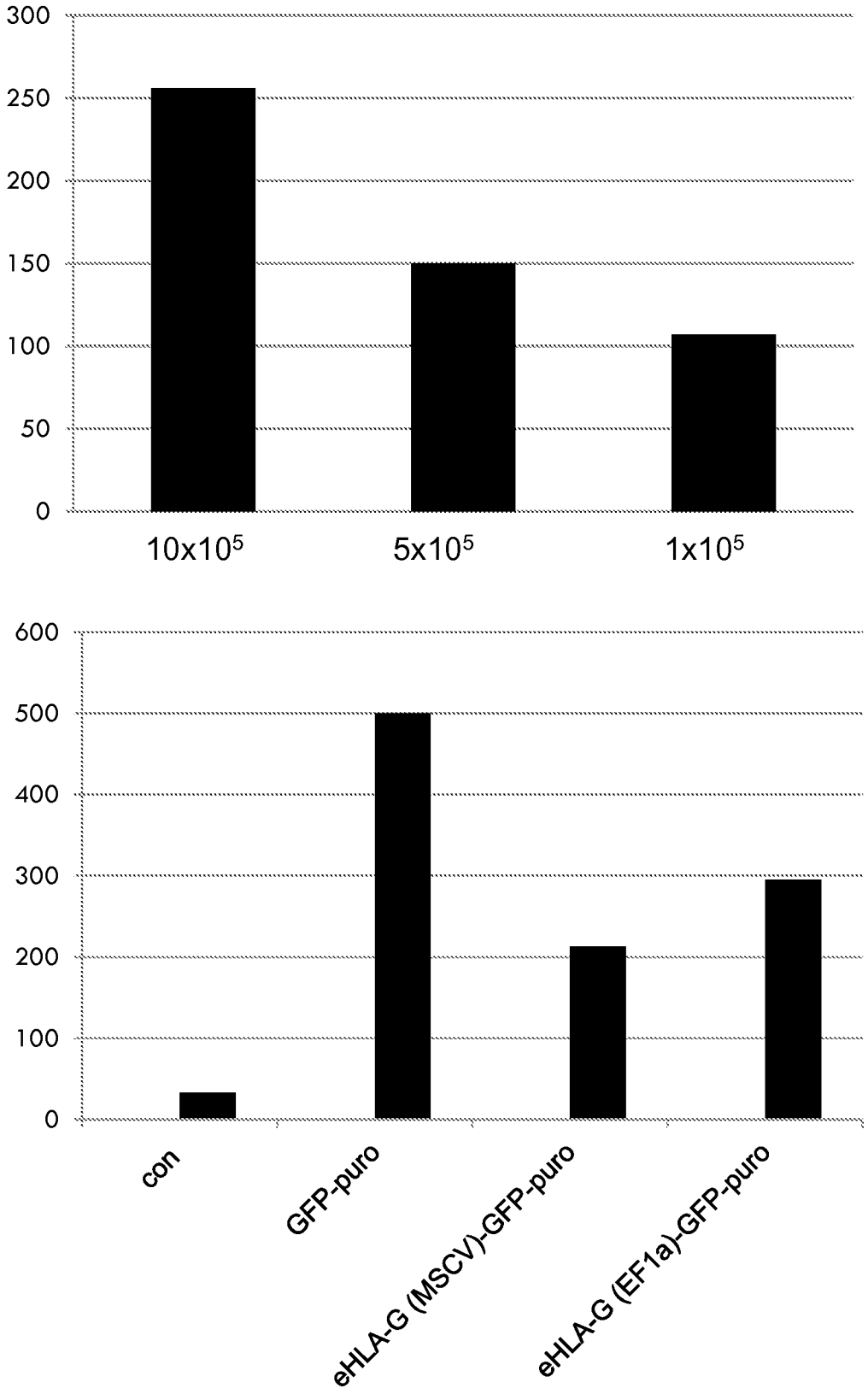
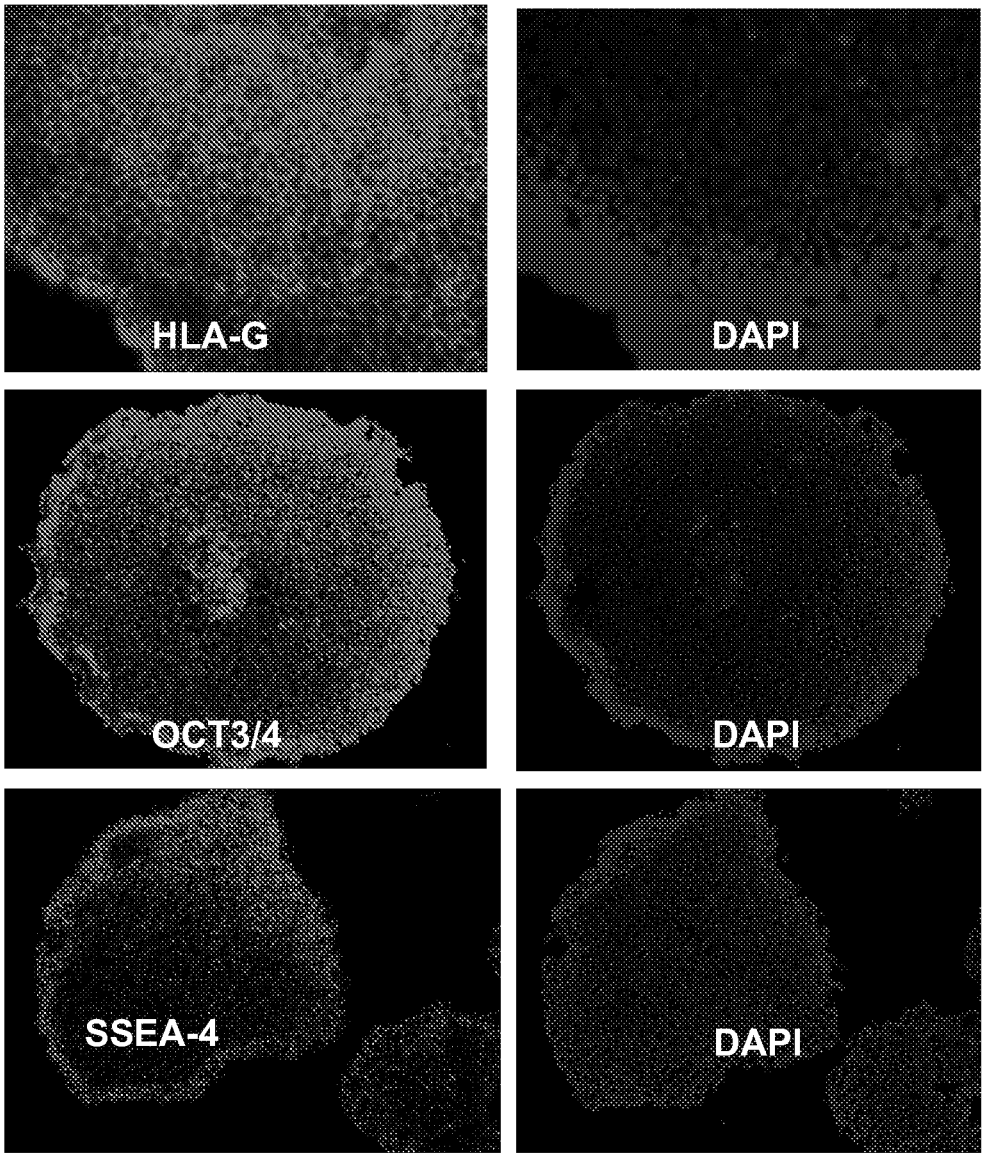

300
250
200
150
100
50
0
10x10^5
5x10^5
1x10^5
600
500
400
300
200
100
0
con
GFP-puro
eHLA-G (MSCV)-GFP-puro
eHLA-G (EF1a)-GFP-puro

Fig. 4



eHLA-G+ hESC

Fig. 5

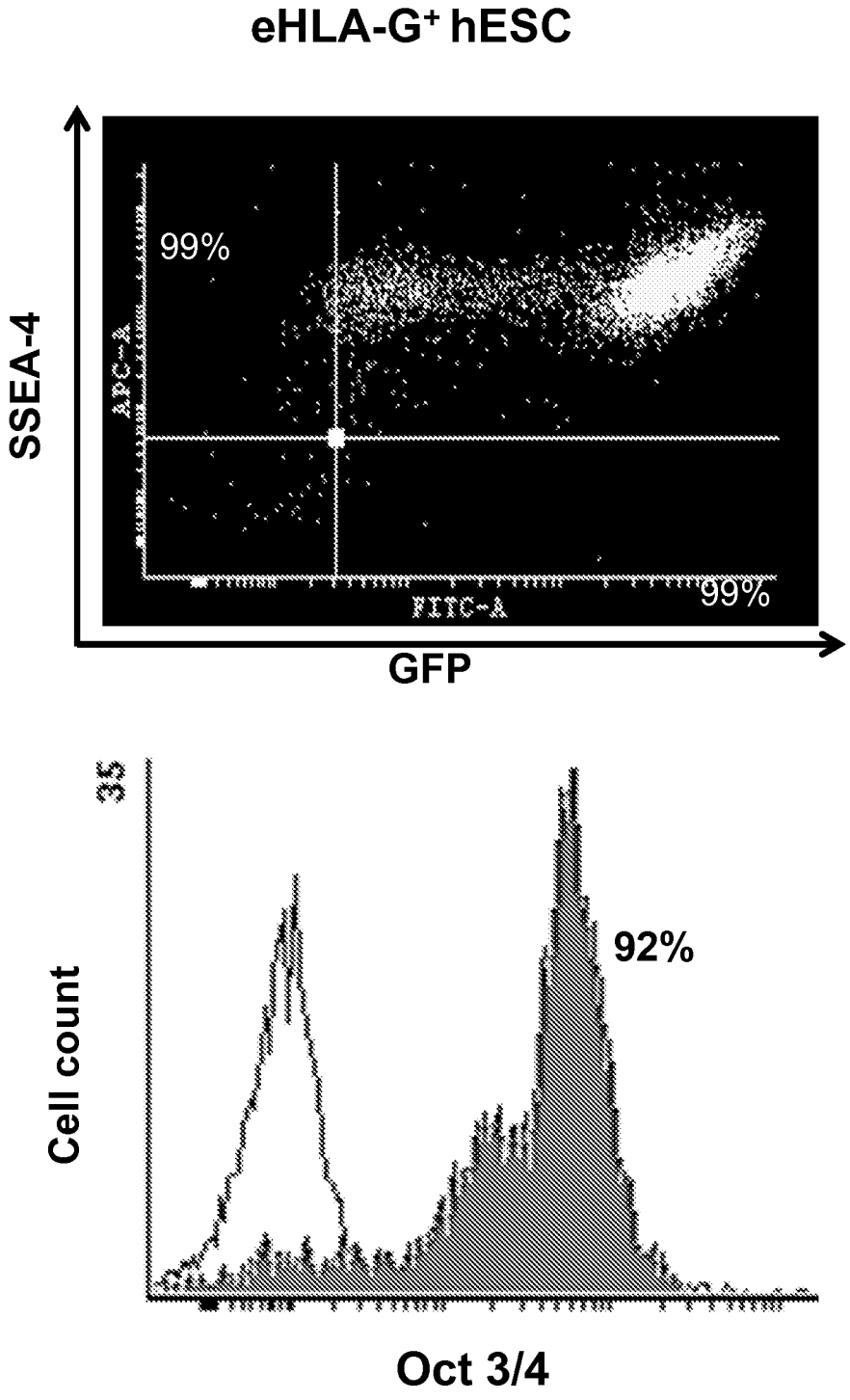


Fig. 6

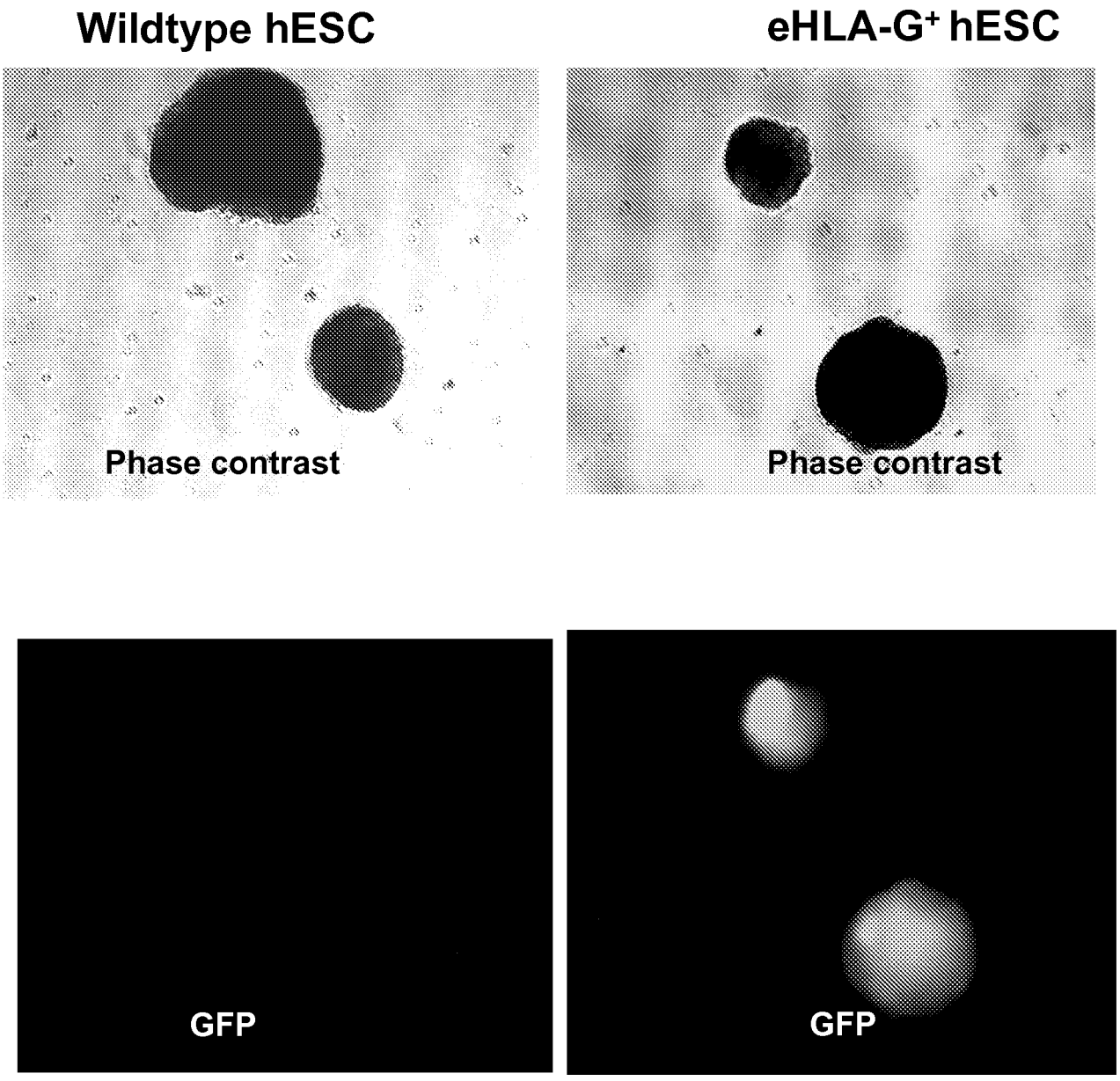

Wildtype hESC
eHLA-G+ hESC
Phase contrast
Phase contrast
GFP
GFP

Fig. 7

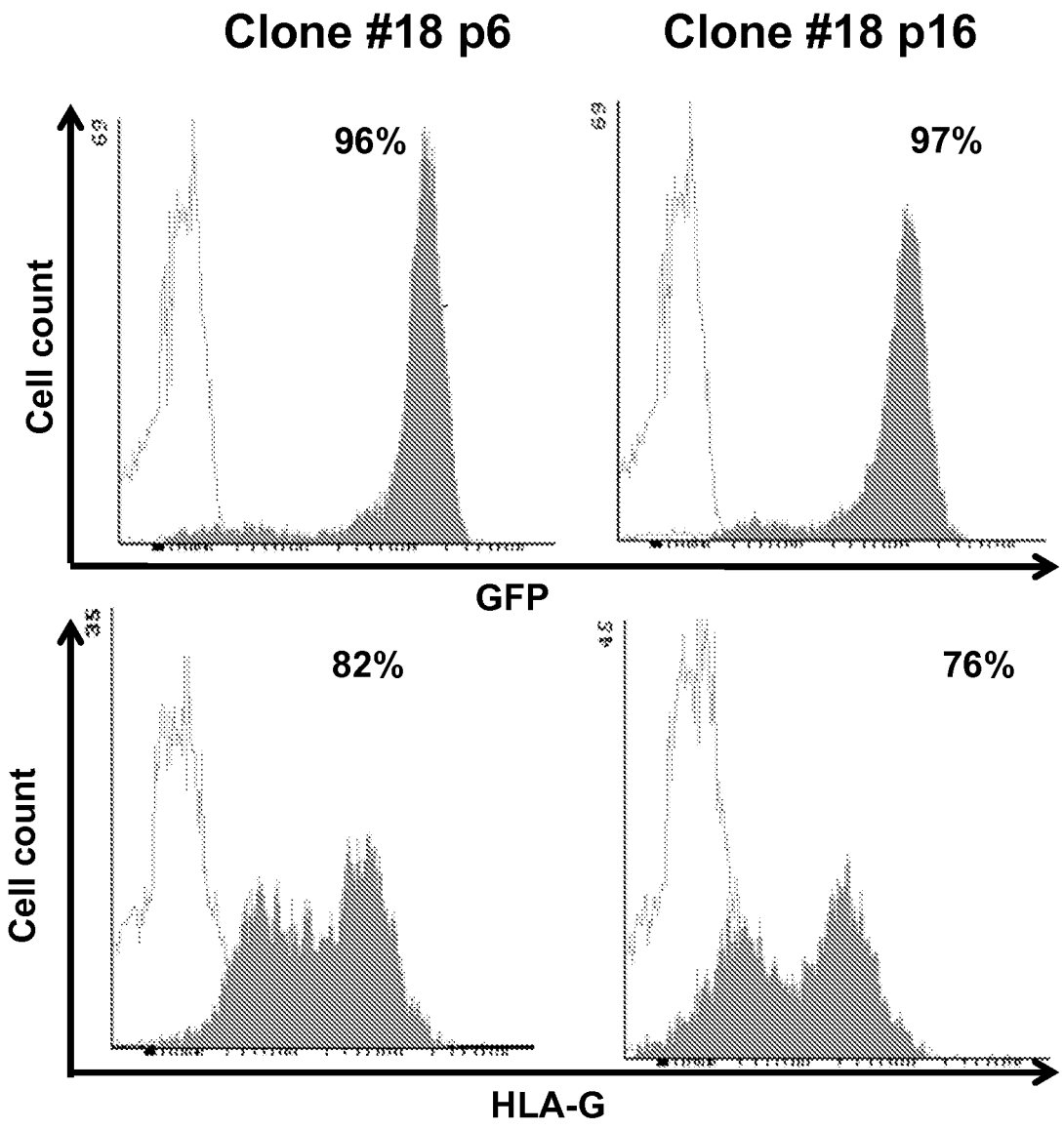

Clone #18 p6
Clone #18 p16
96%
97%
Cell count
GFP
82%
76%
Cell count
HLA-G

Fig. 8

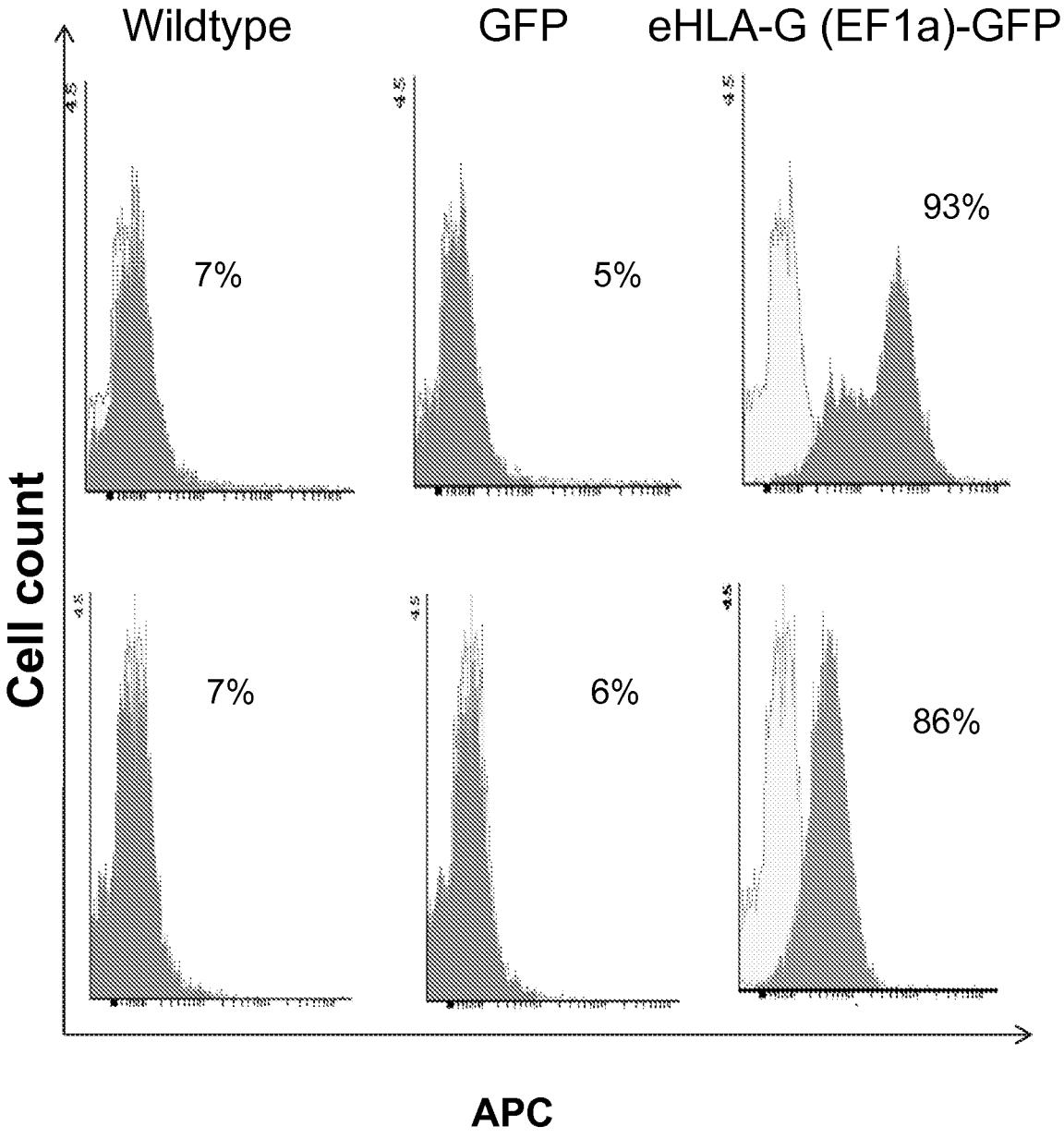


Fig. 9A

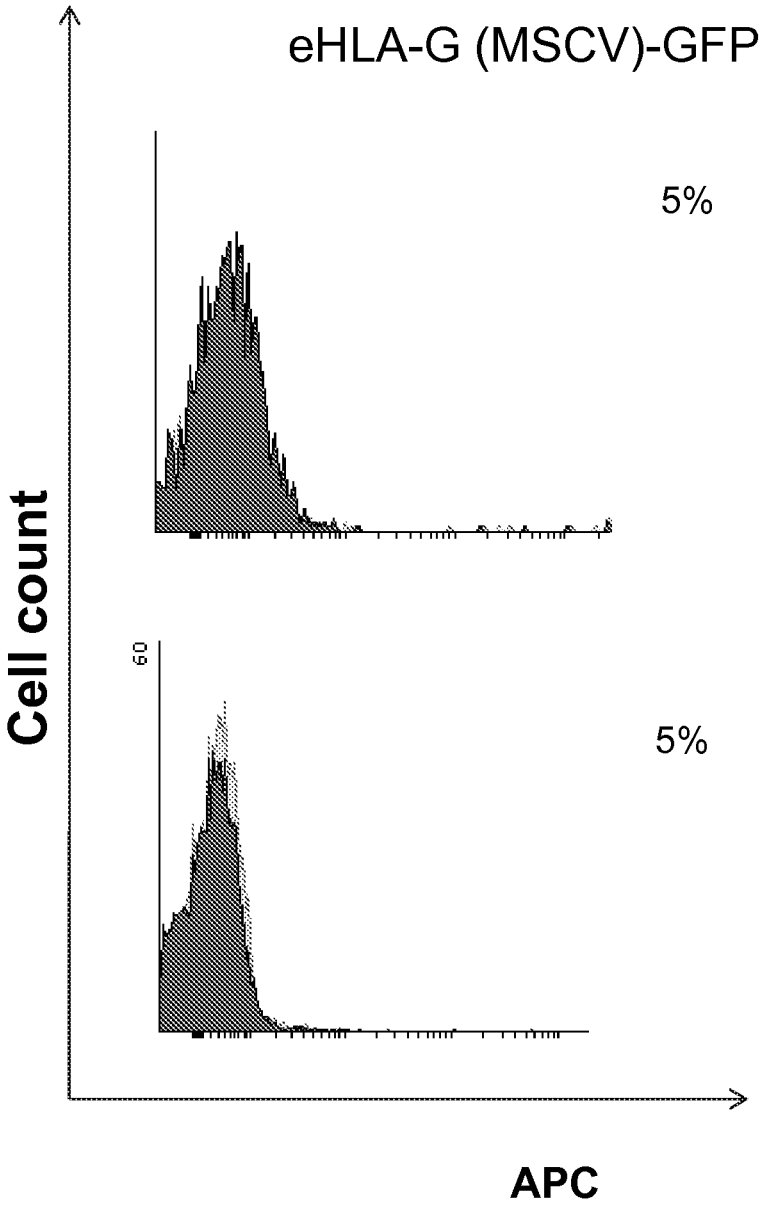


Fig. 9B

Antibody	wildtype		eHLA-G-GFP	
	% reactivity (mean ± SEM)	**MFI ratio** (mean ± SEM)	**% reactivity** (mean ± SEM)	**MFI ratio** (mean ± SEM)
HLA-A,B,C	98.3±0.5	123.5±9.1	98.3±0.4	132.1±9.2
HLA-E	2.4±0.4	0.8±0.1	4.0±0.6	0.8±0.1
HLA-G	8.0±1.0	1.0±0	**58.6±6.2**	**7.1±1.4**
HLA-DP,DQ,DR	29.7±3.2	3.7±0.9	29.3±1.9	3.6±0.2
β2M	99	364	99.0±0	357±51

Fig. 10

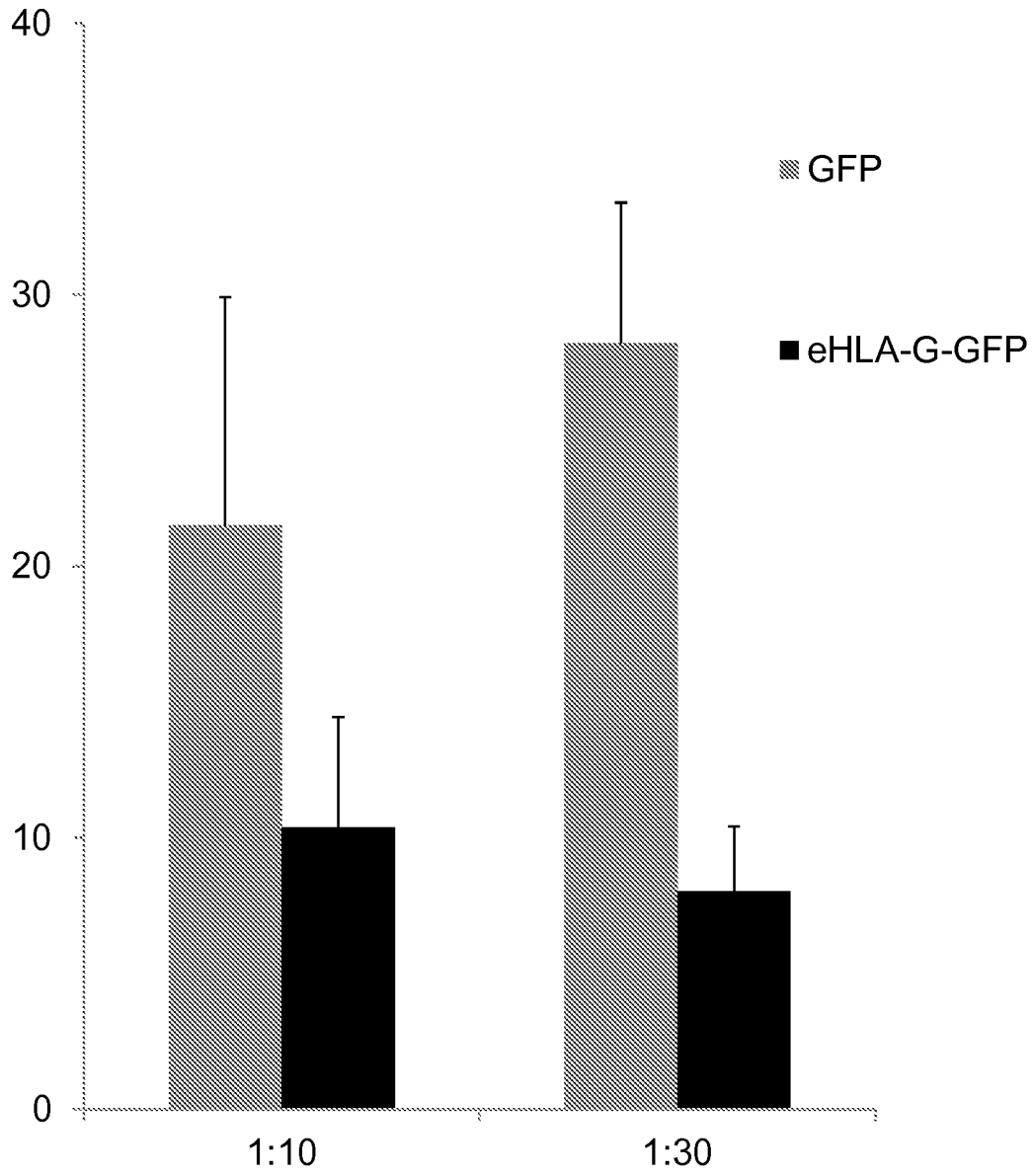


Fig. 11

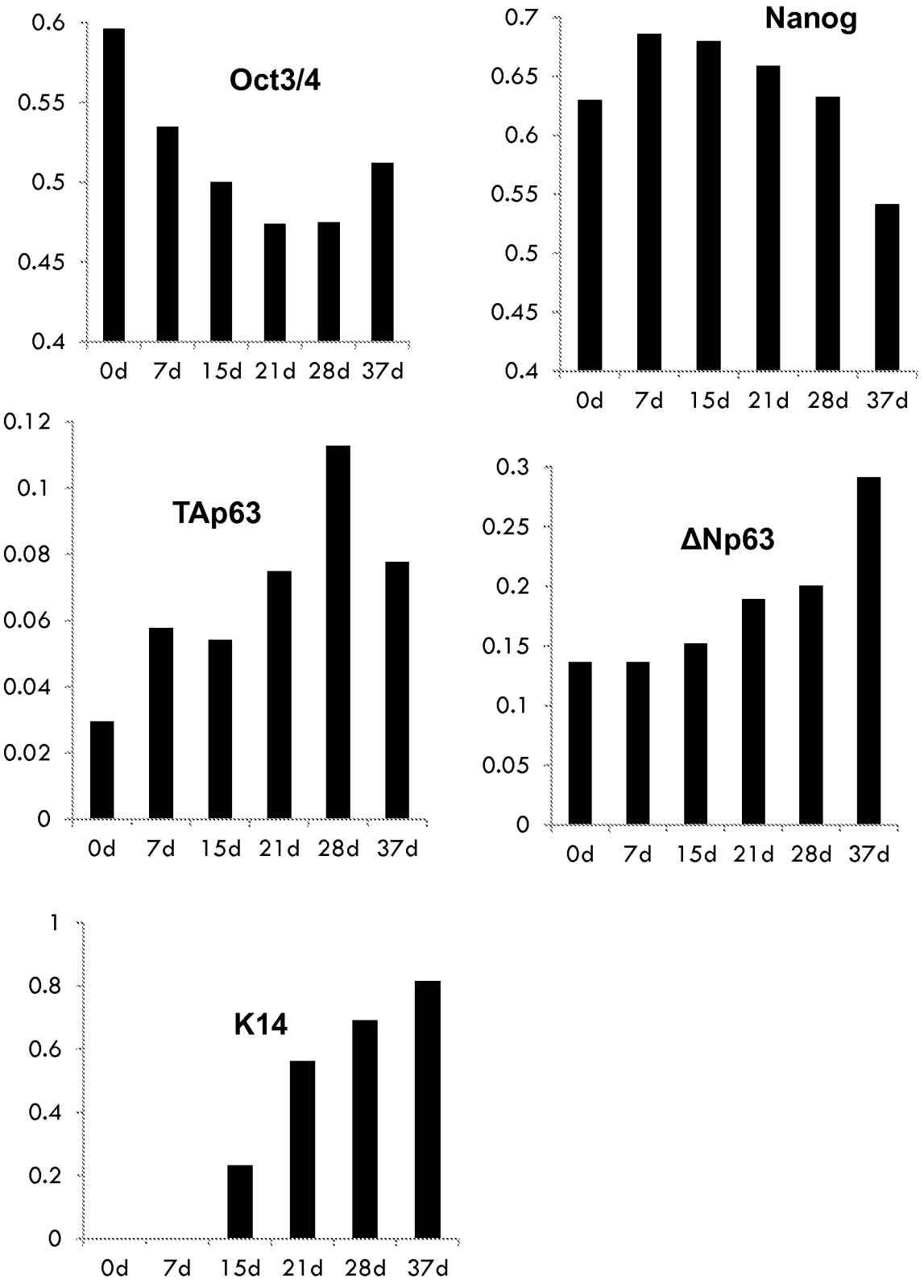

Oct3/4
0.6
0.55
0.5
0.45
0.4
0d 7d 15d 21d 28d 37d
Nanog
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0d 7d 15d 21d 28d 37d
TAp63
0.12
0.1
0.08
0.06
0.04
0.02
0
0d 7d 15d 21d 28d 37d
ΔNp63
0.3
0.25
0.2
0.15
0.1
0.05
0
0d 7d 15d 21d 28d 37d
K14
1
0.8
0.6
0.4
0.2
0
0d 7d 15d 21d 28d 37d

Fig. 12

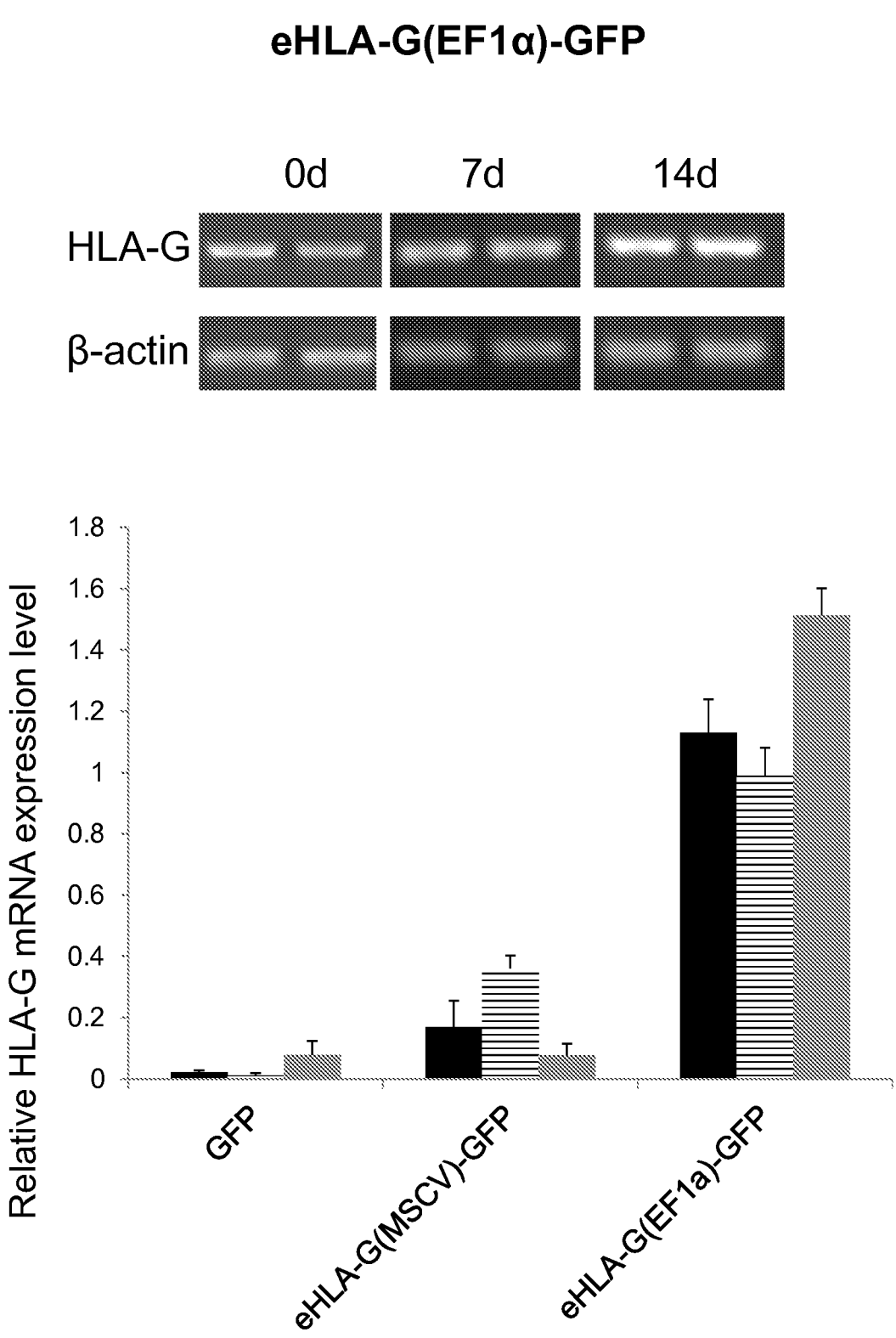

eHLA-G(EF1α)-GFP
0d
7d
14d
HLA-G
β-actin
Relative HLA-G mRNA expression level
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
GFP
eHLA-G(MSCV)-GFP
eHLA-G(EF1a)-GFP

Fig. 13

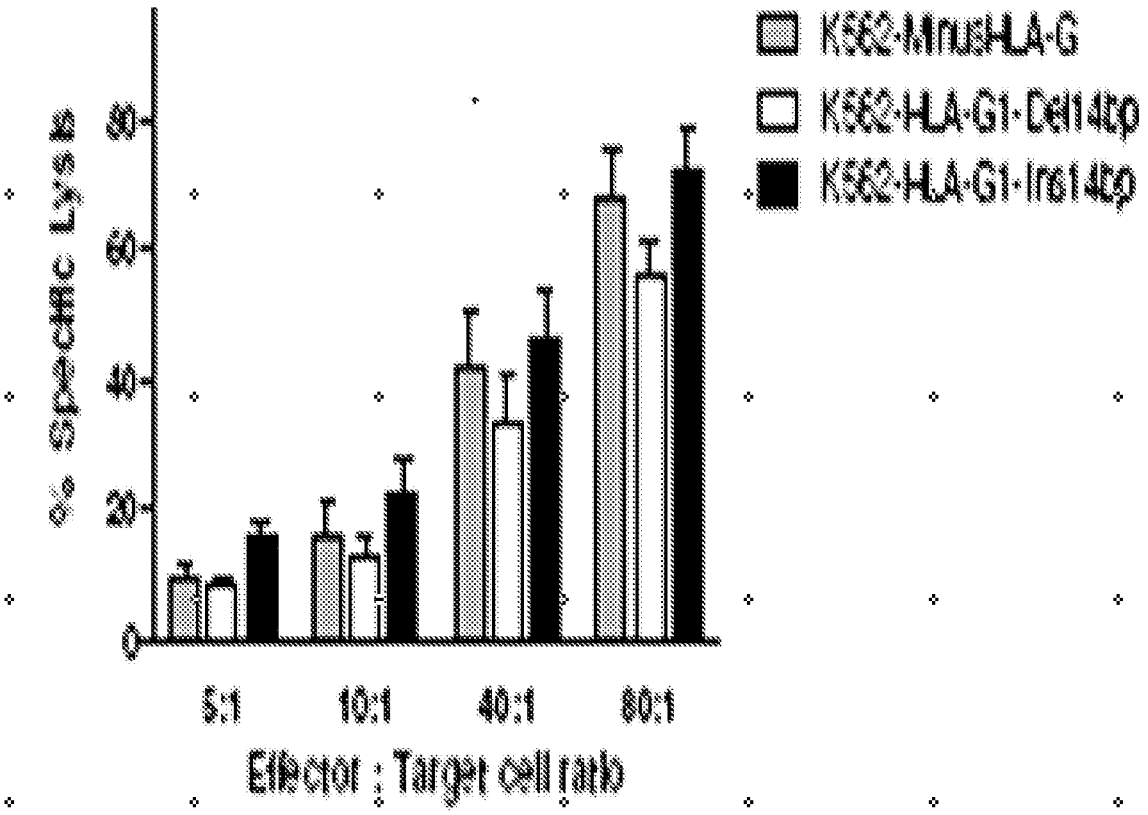

K562-MockHLA-G
K562-HLA-G1-Del14bp
K562-HLA-G1-Ins14bp
% Specific Lysis
0
20
40
60
80
5:1
10:1
40:1
80:1
Effector : Target cell ratio

Fig. 14

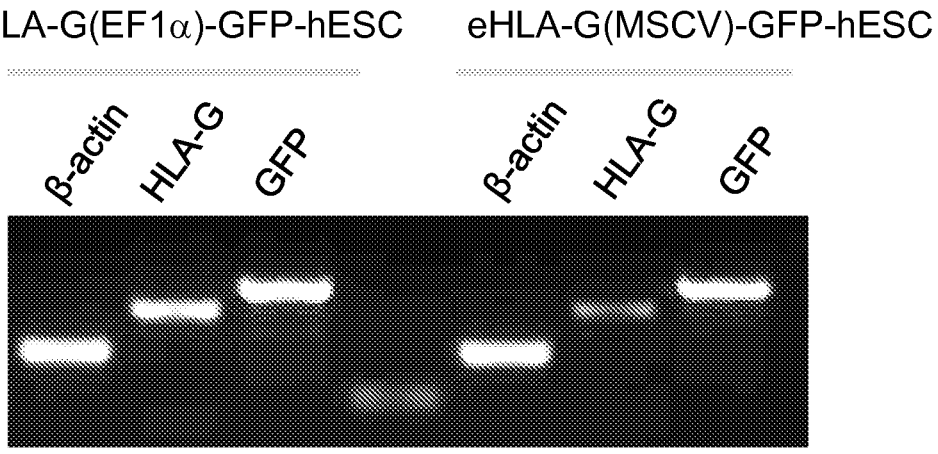

eHLA-G(EF1α)-GFP-hESC
eHLA-G(MSCV)-GFP-hESC
β-actin
HLA-G
GFP
β-actin
HLA-G
GFP

Fig. 15

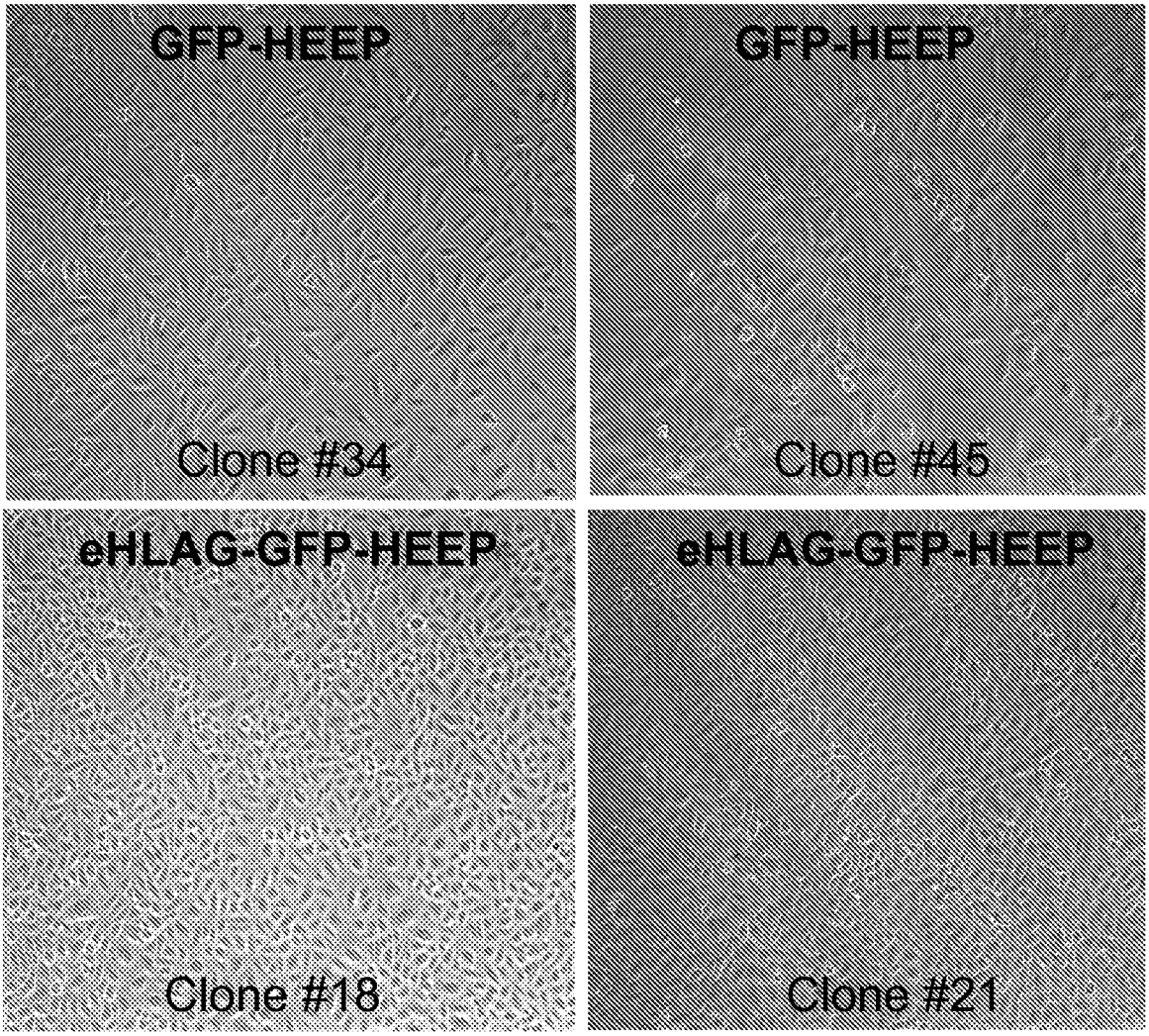

GFP-HEEP
Clone #34
GFP-HEEP
Clone #45
eHLAG-GFP-HEEP
Clone #18
eHLAG-GFP-HEEP
Clone #21

Fig. 16

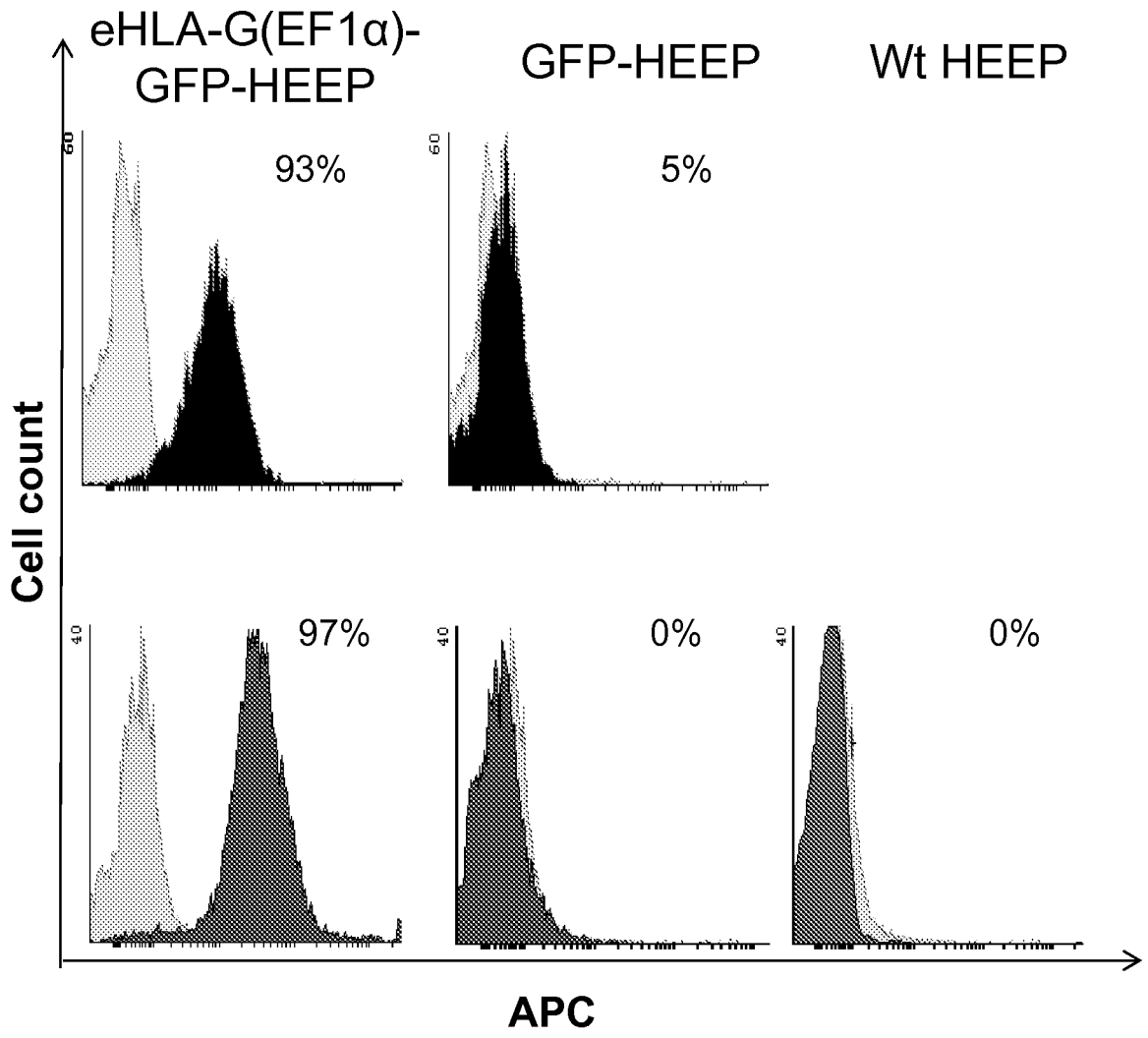


Fig. 17

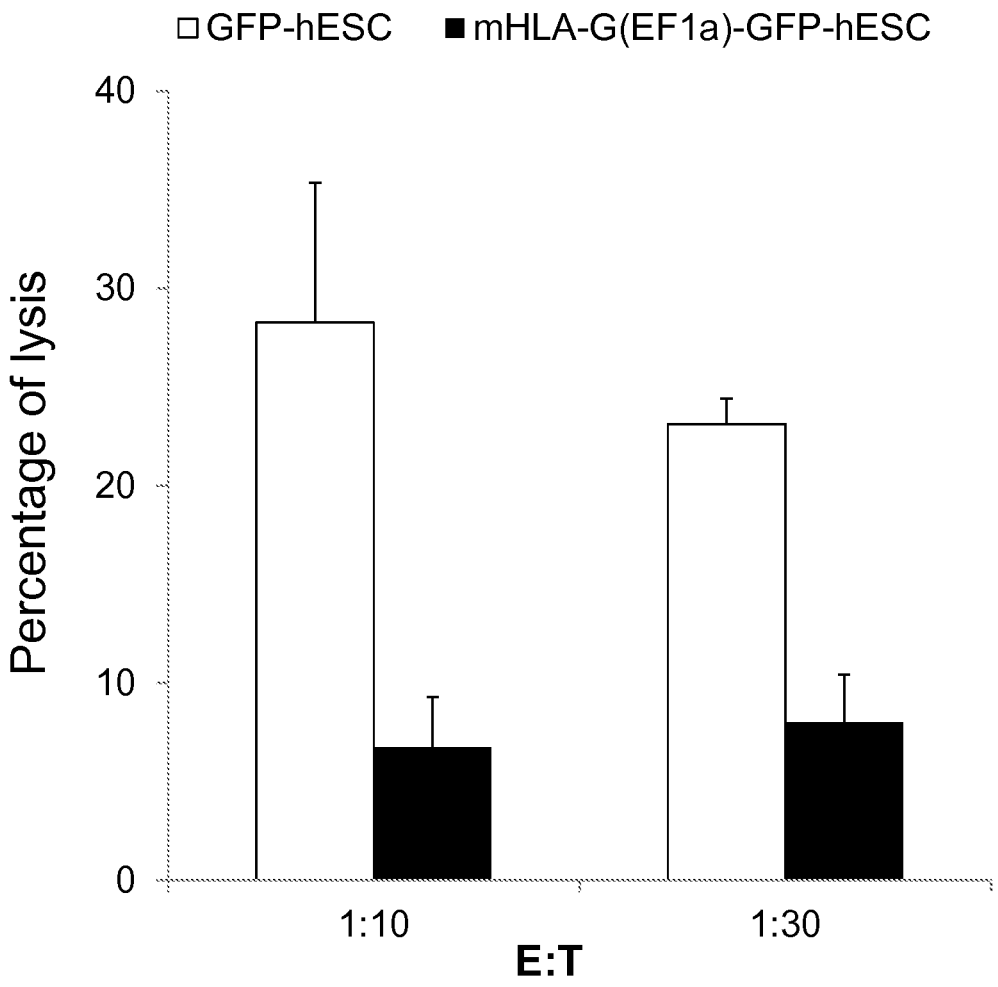

□GFP-hESC ■mHLA-G(EF1a)-GFP-hESC
40
30
20
10
0
Percentage of lysis
1:10
1:30
E:T

Fig. 18

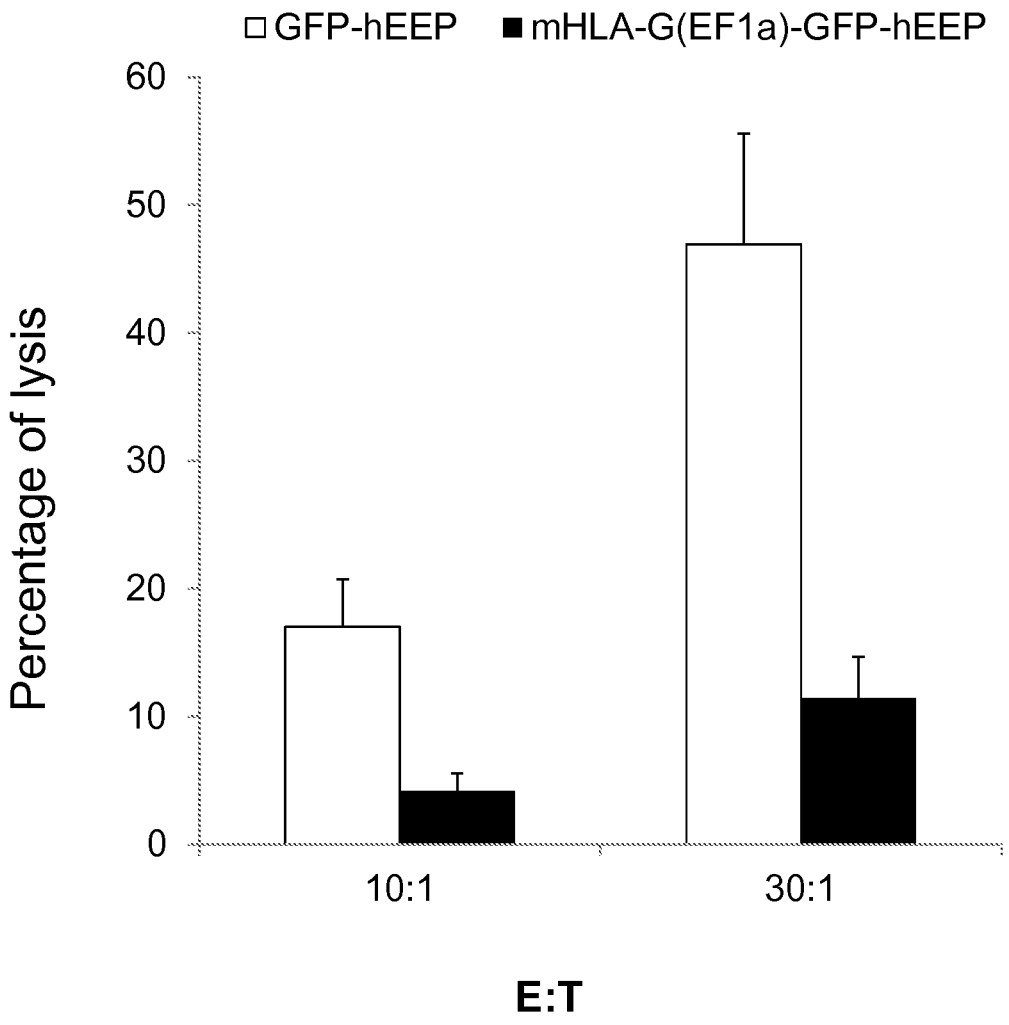

GFP-hEEP
mHLA-G(EF1a)-GFP-hEEP
Percentage of lysis
60
50
40
30
20
10
0
10:1
30:1
E:T

Fig. 19

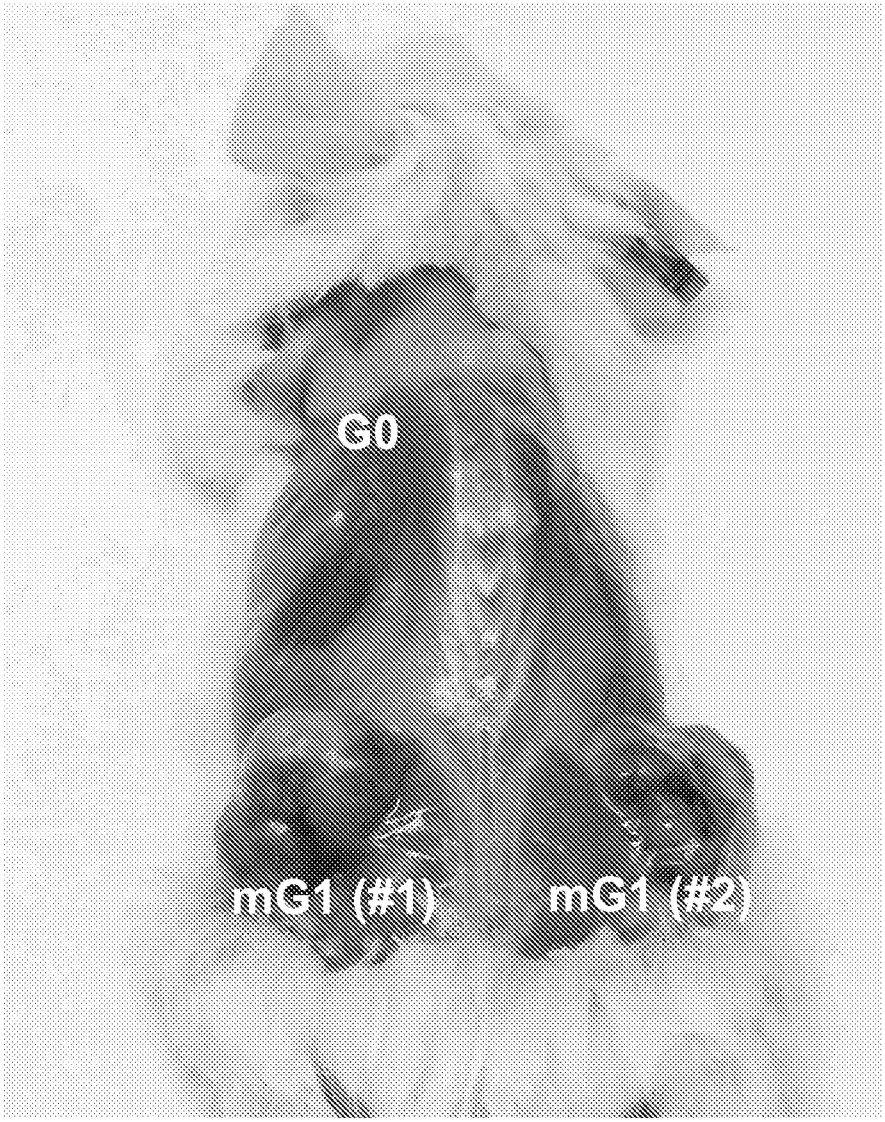


Fig. 20

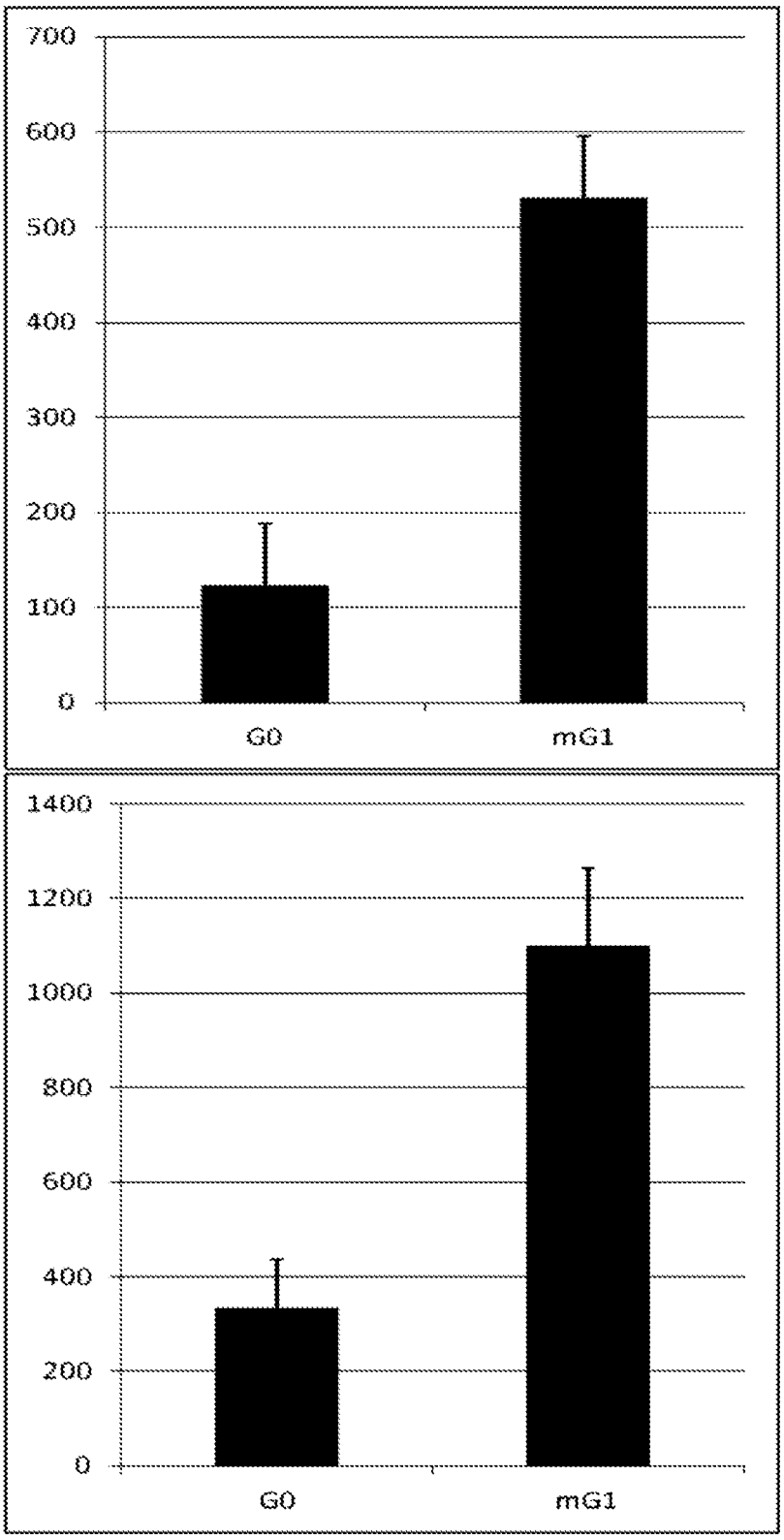

700
600
500
400
300
200
100
0
G0
mG1
1400
1200
1000
800
600
400
200
0
G0
mG1

Fig. 21

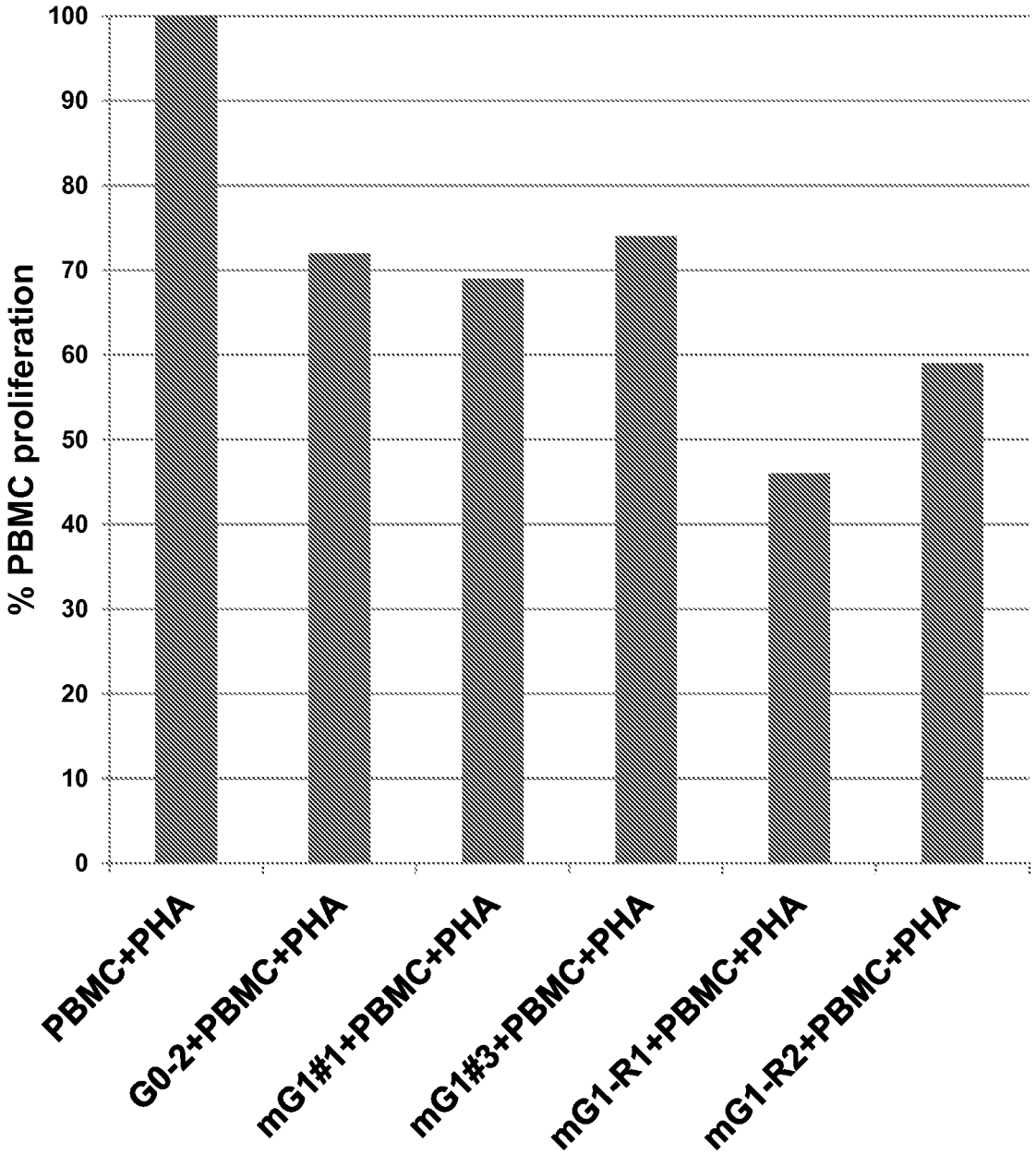

% PBMC proliferation
100
90
80
70
60
50
40
30
20
10
0
PBMC+PHA
G0-2+PBMC+PHA
mG1#1+PBMC+PHA
mG1#3+PBMC+PHA
mG1-R1+PBMC+PHA
mG1-R2+PBMC+PHA

Fig. 22