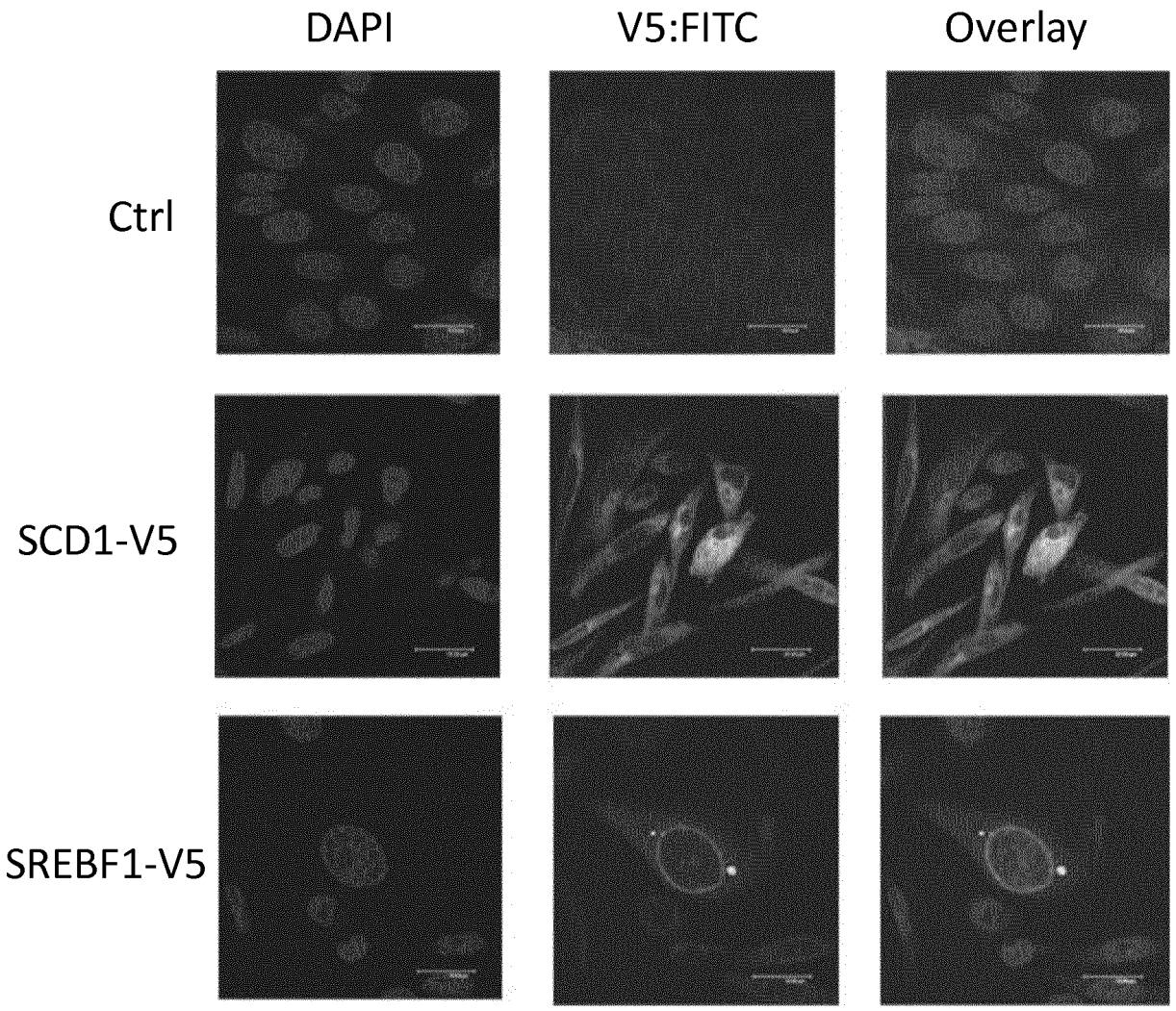

FIG. 1

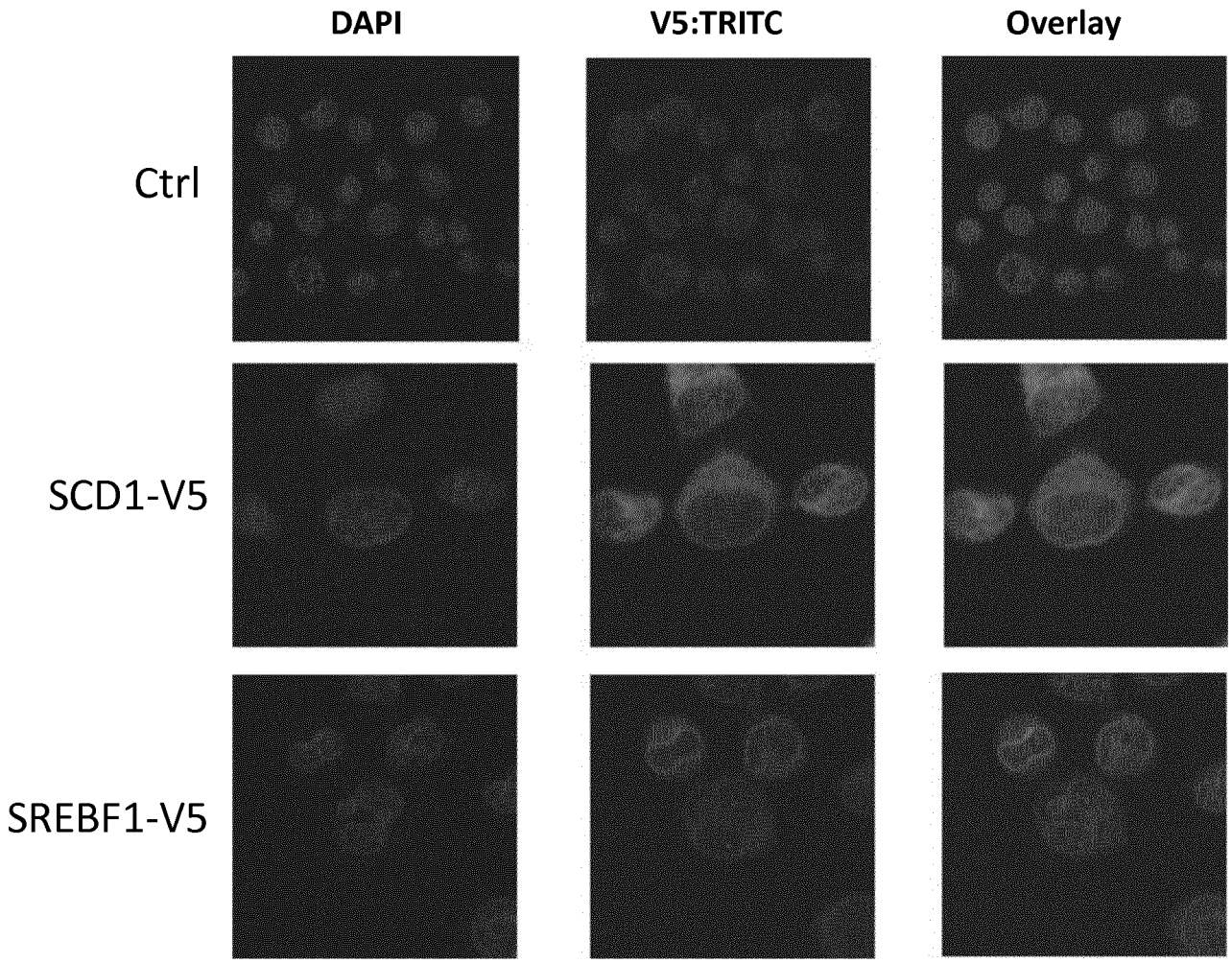

FIG. 2

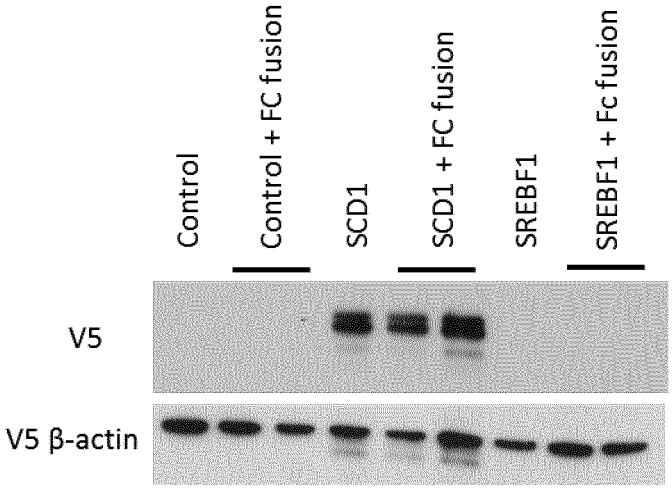

FIG. 3A

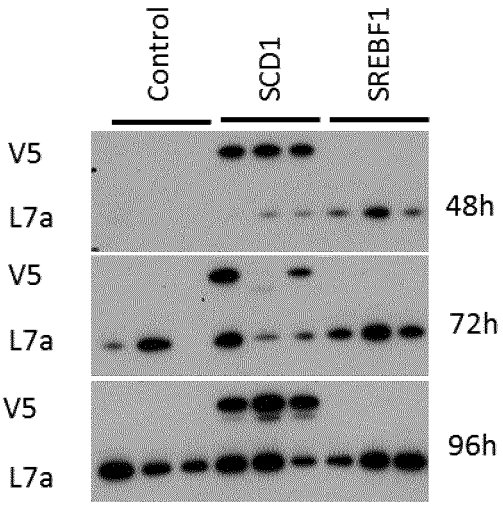

FIG. 3B

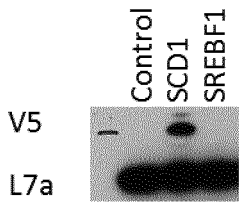

FIG. 3C

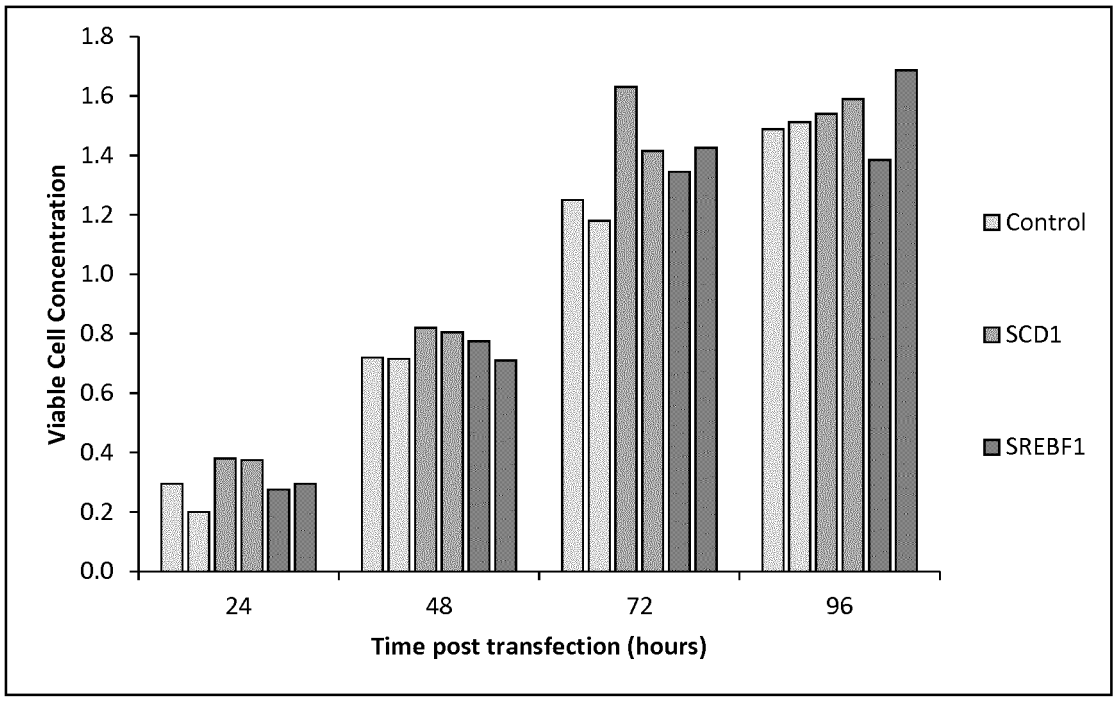
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Viable Cell Concentration
24
48
72
96
Time post transfection (hours)
Control
SCD1
SREBF1

FIG. 4

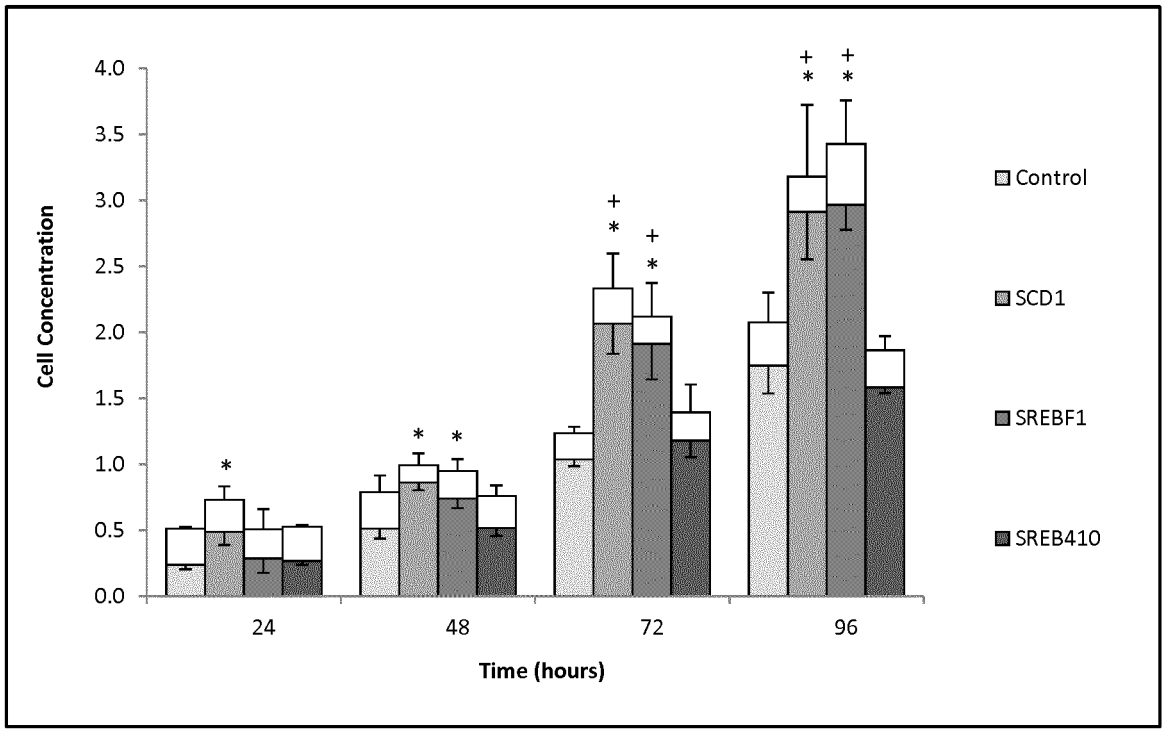
Cell Concentration
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
24
48
72
96
Time (hours)
Control
SCD1
SREBF1
SREB410

FIG. 5A

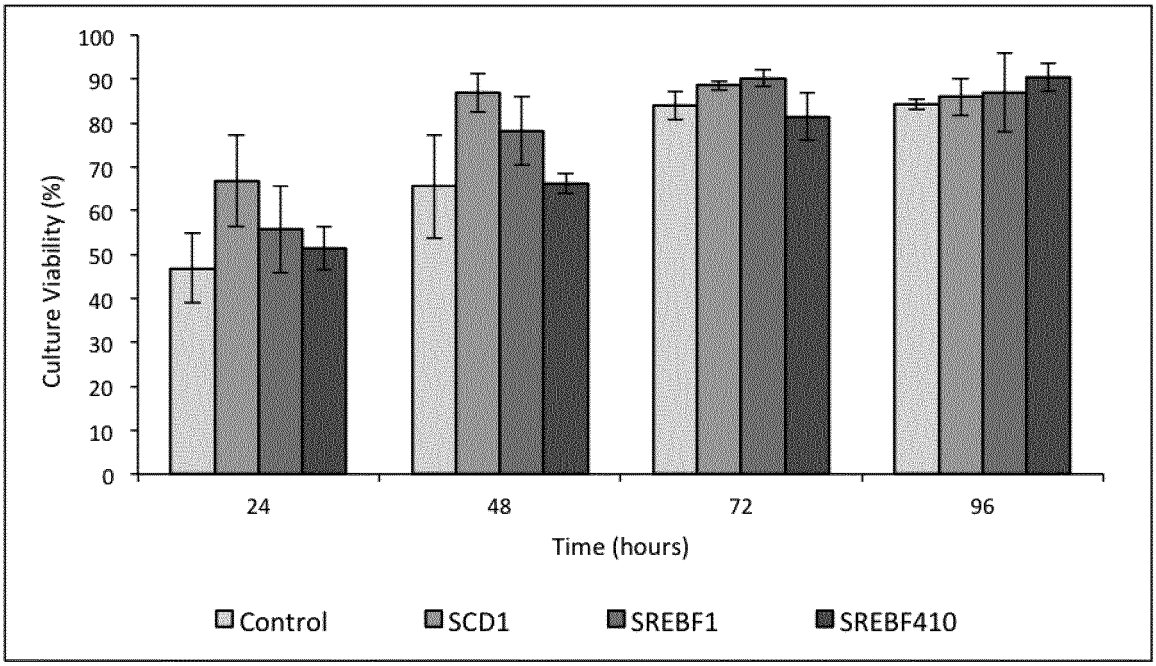
Culture Viability (%)
100
90
80
70
60
50
40
30
20
10
0
24
48
72
96
Time (hours)
Control
SCD1
SREBF1
SREBF410

FIG. 5B

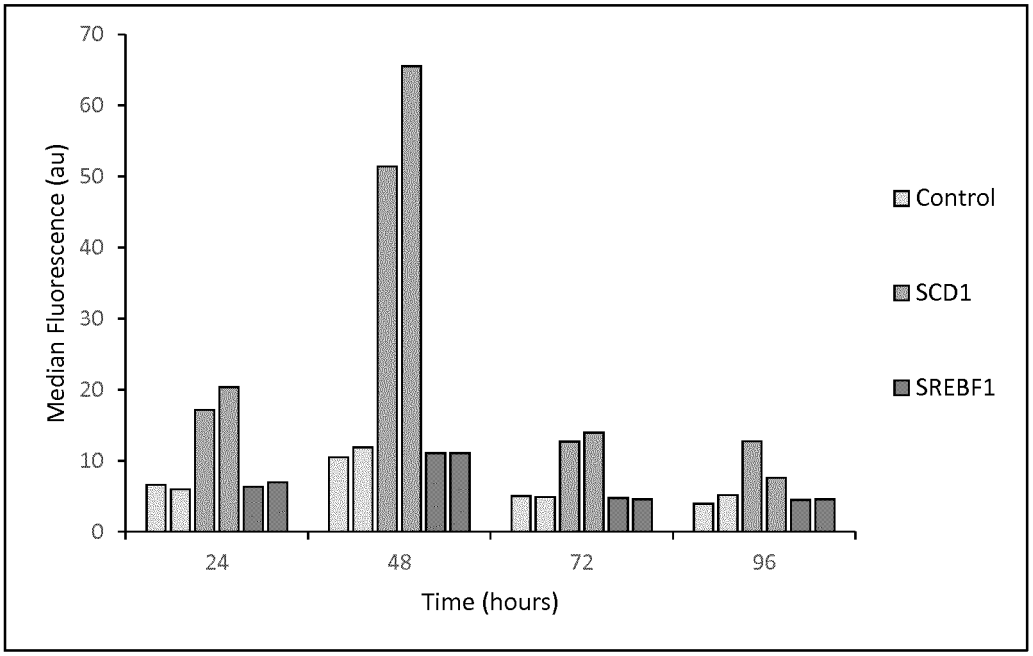
70
60
50
40
30
20
10
0
Median Fluorescence (au)
24
48
72
96
Time (hours)
Control
SCD1
SREBF1

FIG. 6A

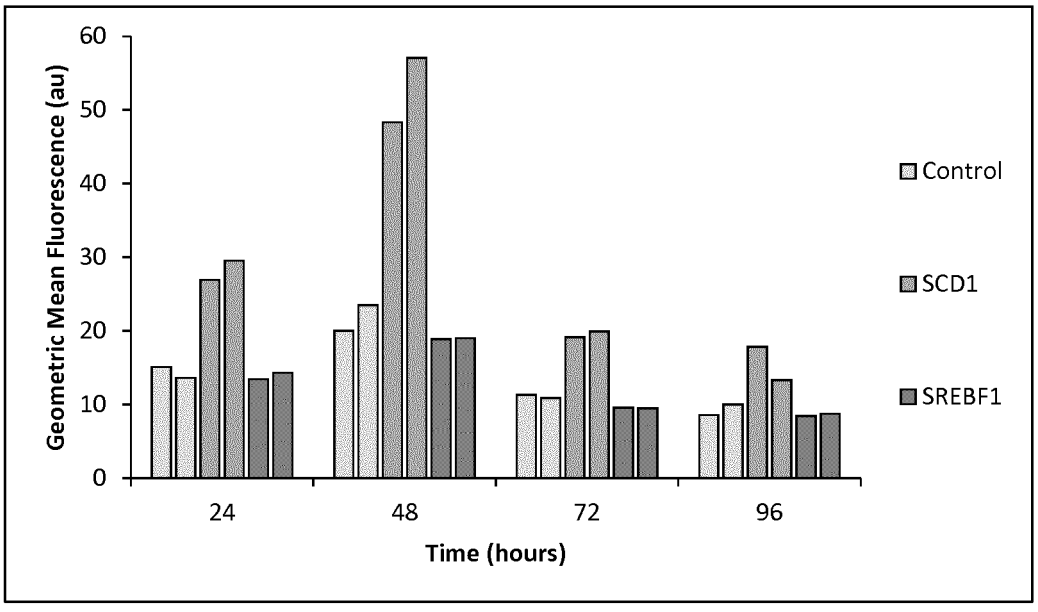
60
50
40
30
20
10
0
Geometric Mean Fluorescence (au)
24
48
72
96
Time (hours)
Control
SCD1
SREBF1

FIG. 6B

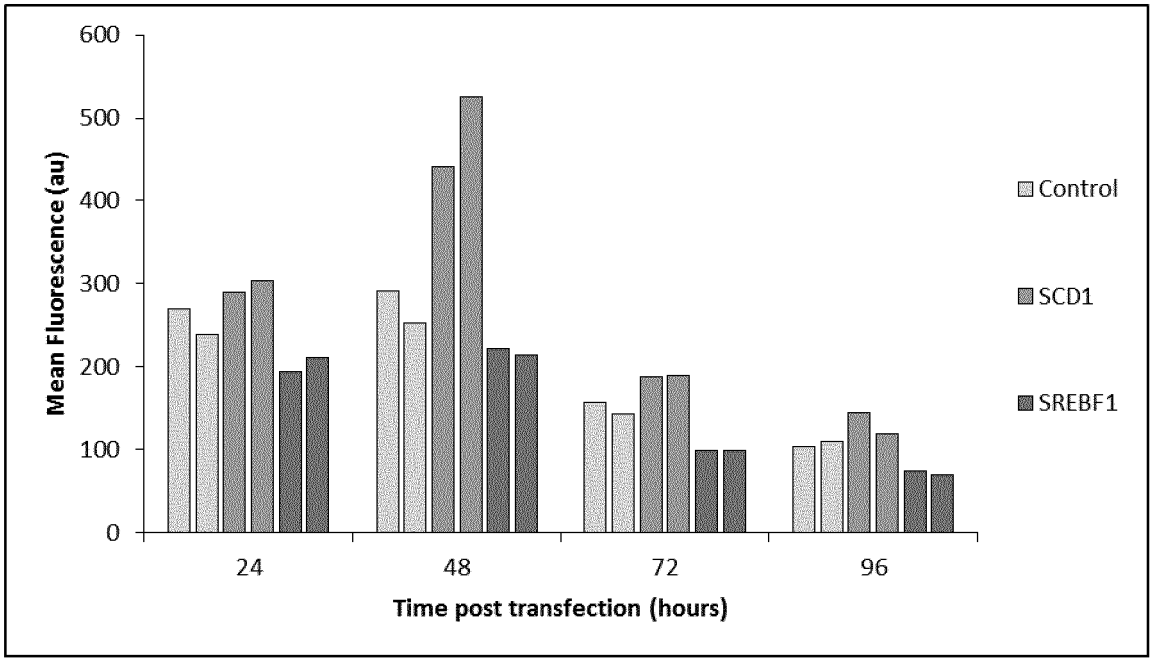
600
500
400
300
200
100
0
Mean Fluorescence (au)
24
48
72
96
Time post transfection (hours)
Control
SCD1
SREBF1

FIG. 6C

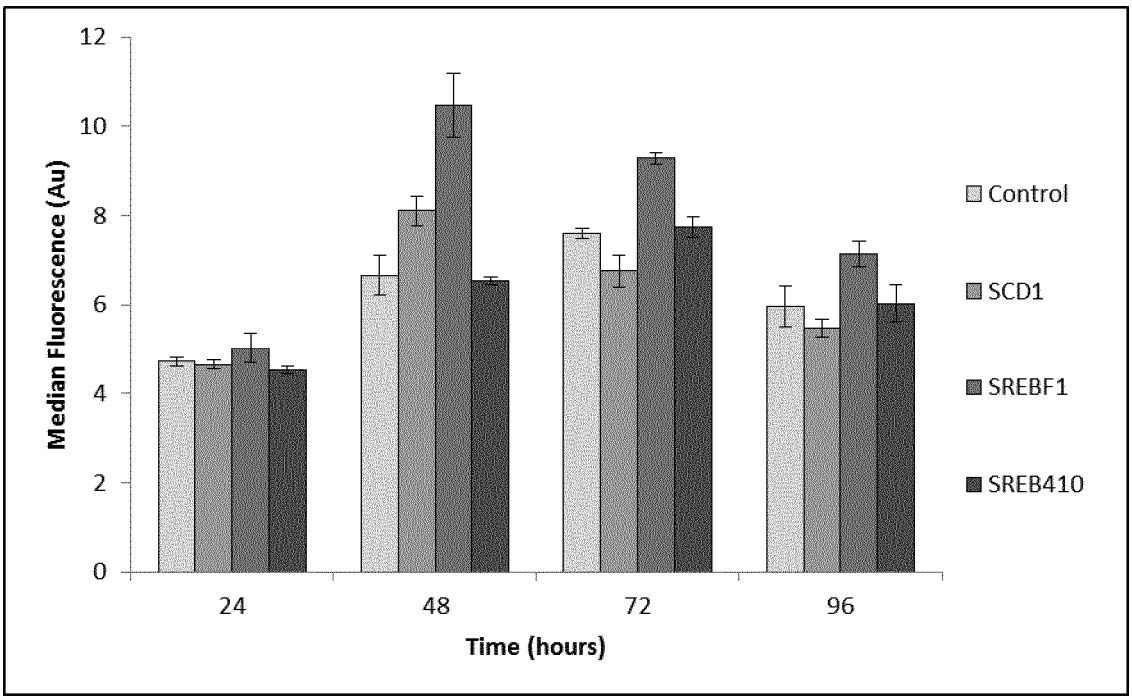
12
10
8
6
4
2
0
Median Fluorescence (Au)
24
48
72
96
Time (hours)
Control
SCD1
SREBF1
SREB410

FIG. 7A

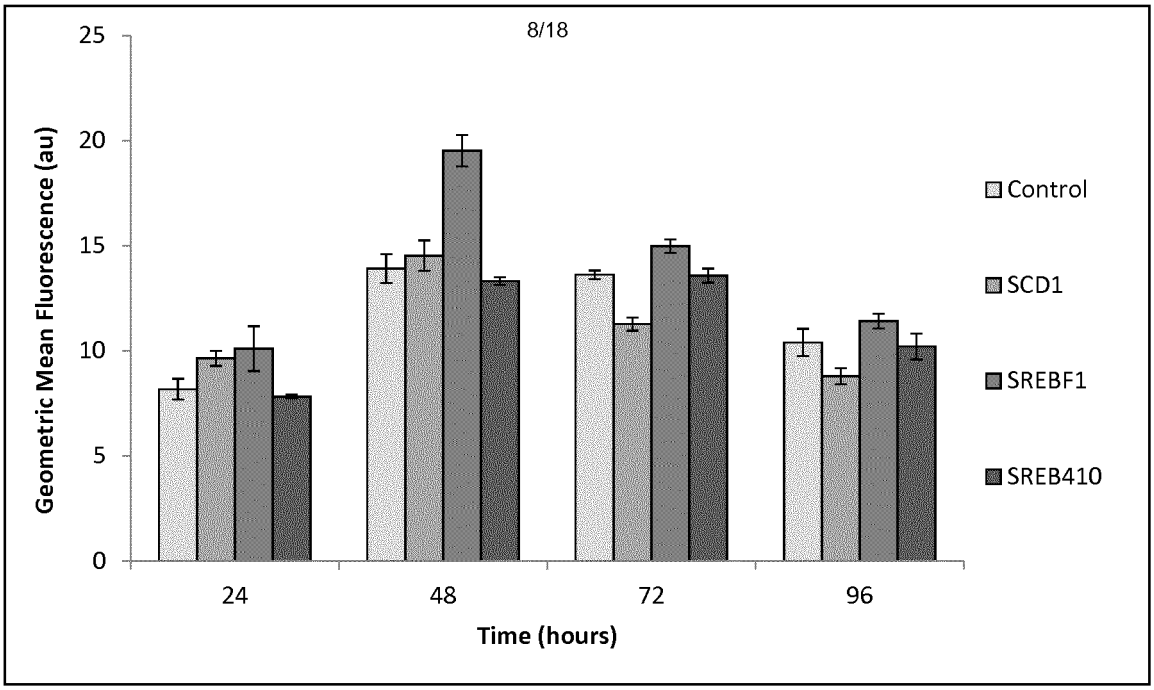
Geometric Mean Fluorescence (au)
25
20
15
10
5
0
24
48
72
96
Time (hours)
Control
SCD1
SREBF1
SREB410

FIG. 7B

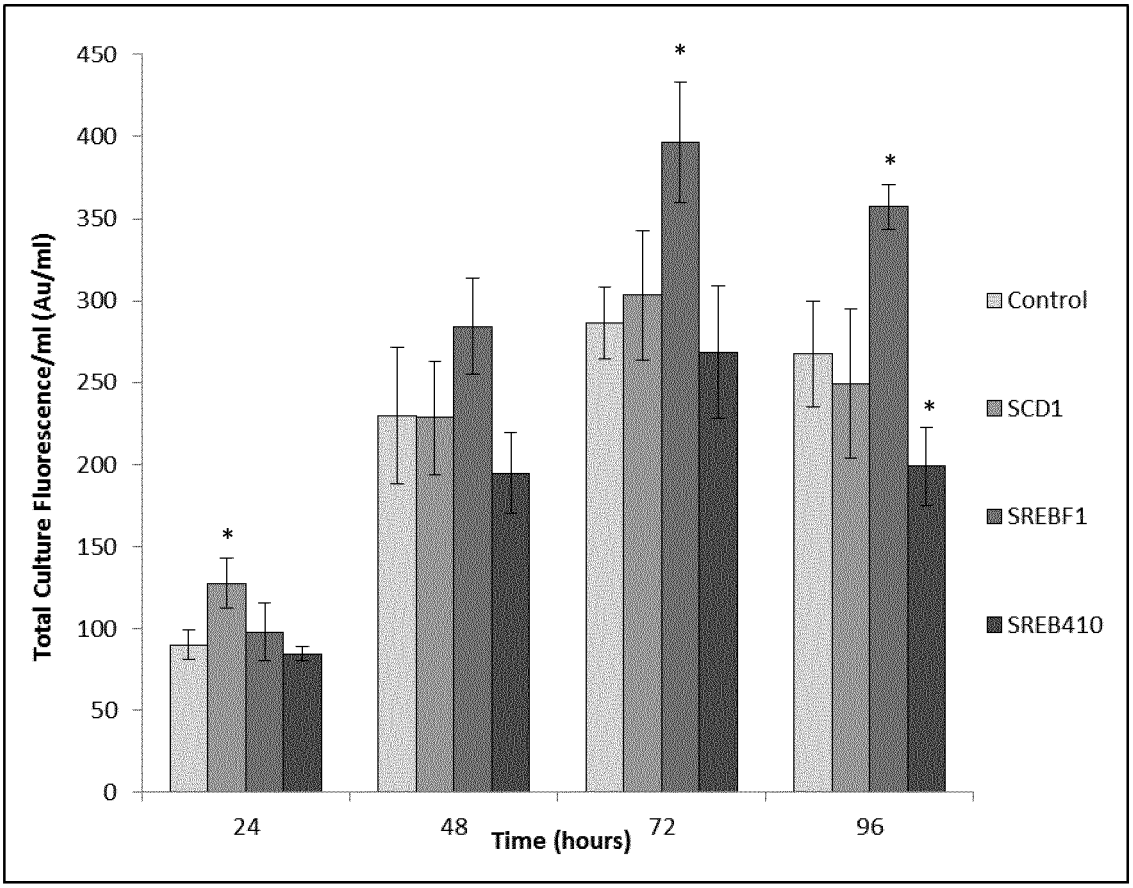
Total Culture Fluorescence/ml (Au/ml)
450
400
350
300
250
200
150
100
50
0
*
*
*
*
24
48
72
96
Time (hours)
Control
SCD1
SREBF1
SREB410

FIG. 7C

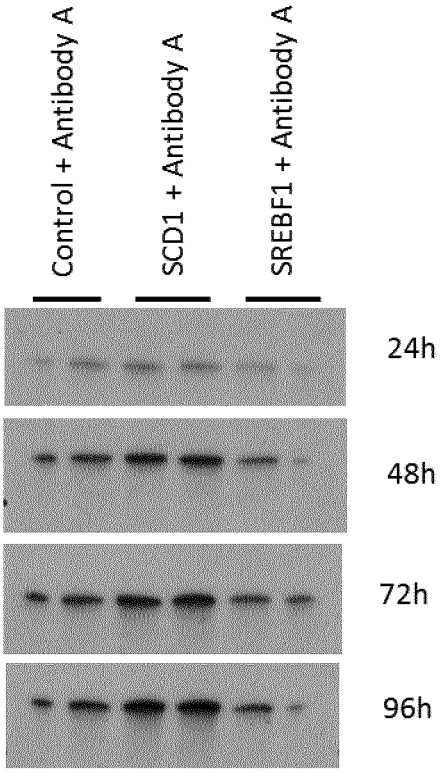
Control + Antibody A
SCD1 + Antibody A
SREBF1 + Antibody A
24h
48h
72h
96h

FIG. 8A

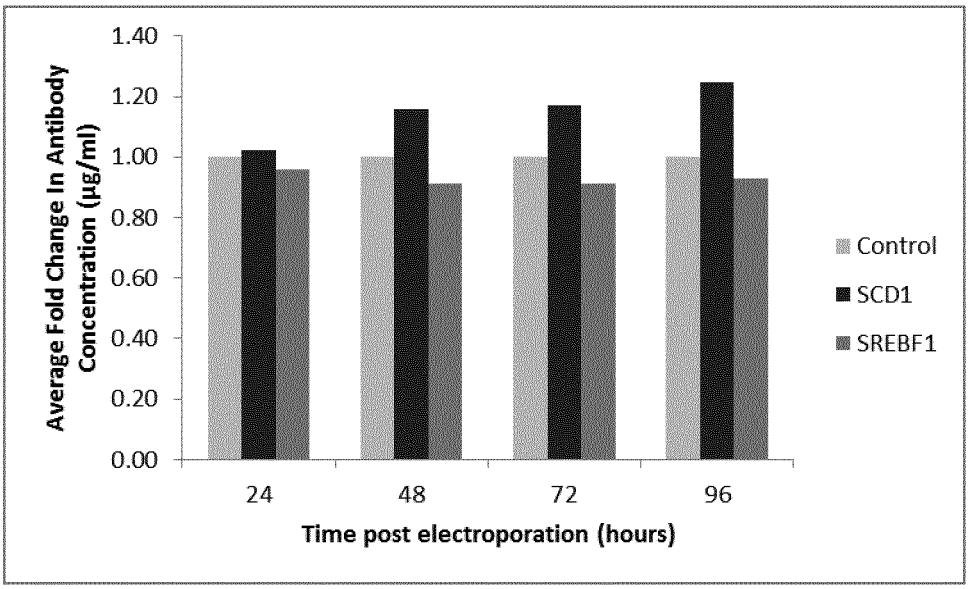
Average Fold Change In Antibody Concentration (µg/ml)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
24
48
72
96
Time post electroporation (hours)
Control
SCD1
SREBF1

FIG. 8B

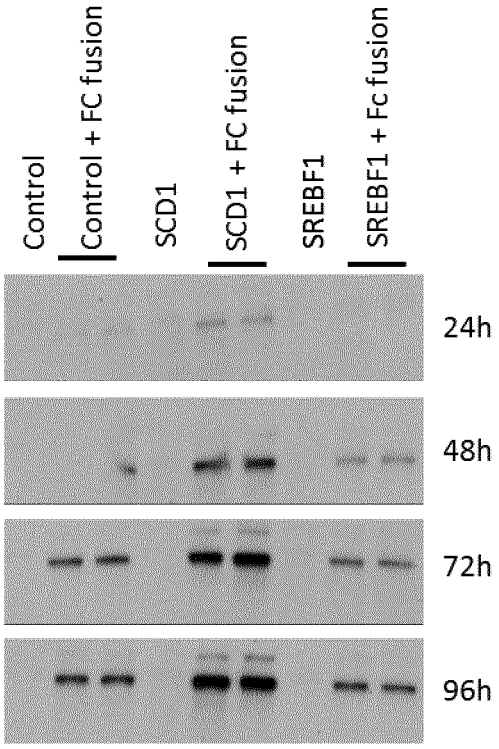
Control
Control + FC fusion
SCD1
SCD1 + FC fusion
SREBF1
SREBF1 + Fc fusion
24h
48h
72h
96h

FIG. 9A

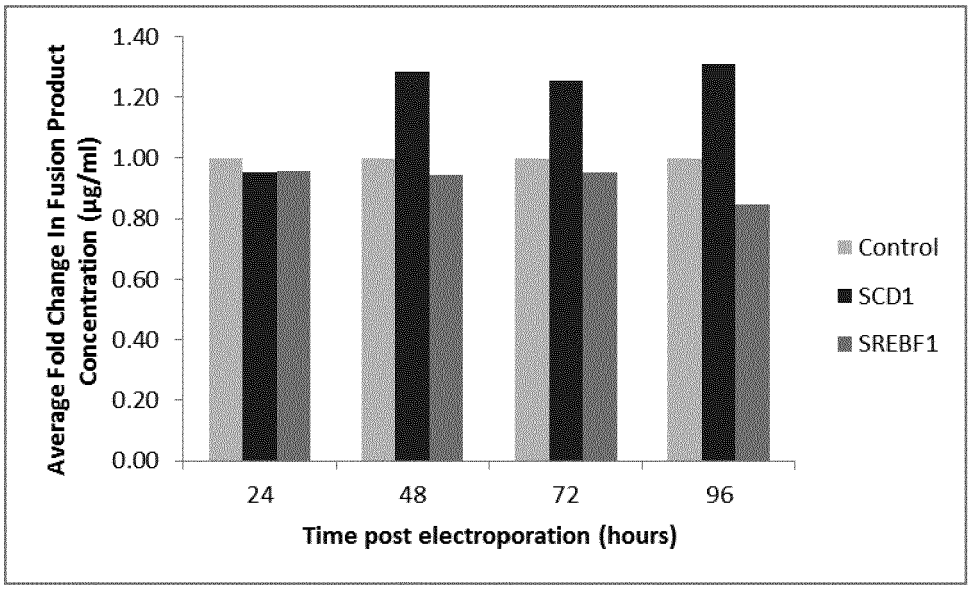
Average Fold Change In Fusion Product Concentration (µg/ml)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
24
48
72
96
Time post electroporation (hours)
Control
SCD1
SREBF1

FIG. 9B

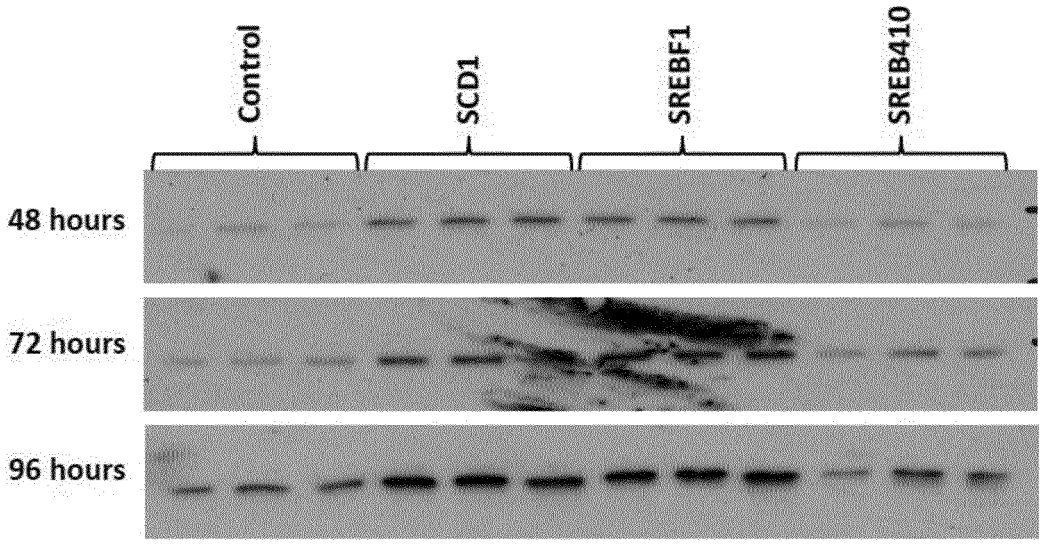

FIG. 10A

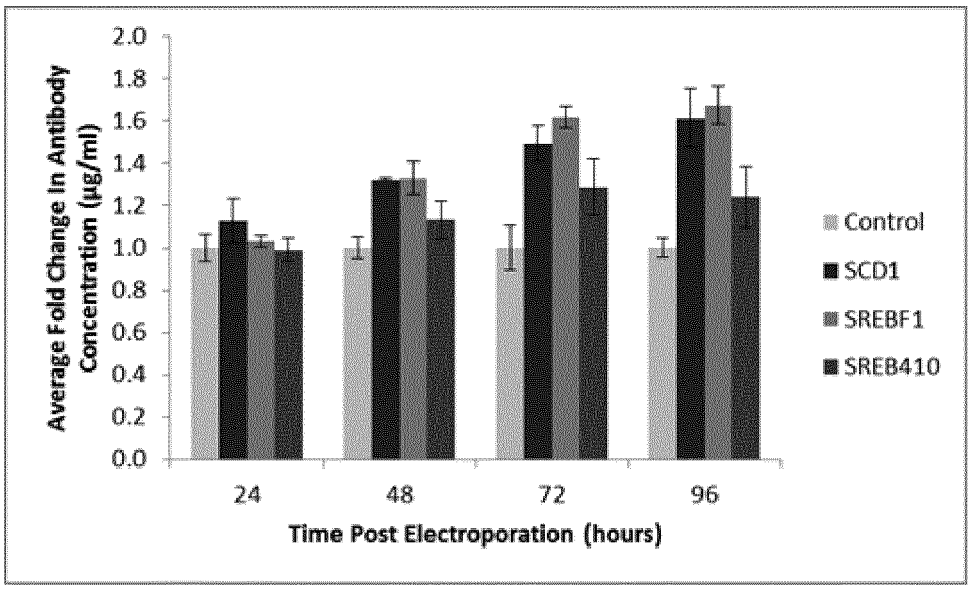

FIG. 10B

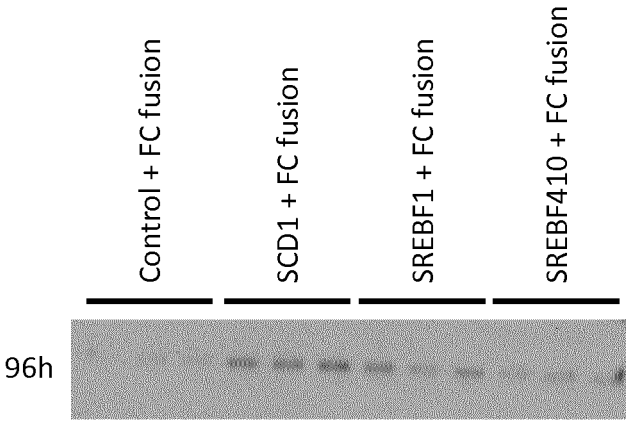

FIG. 11A

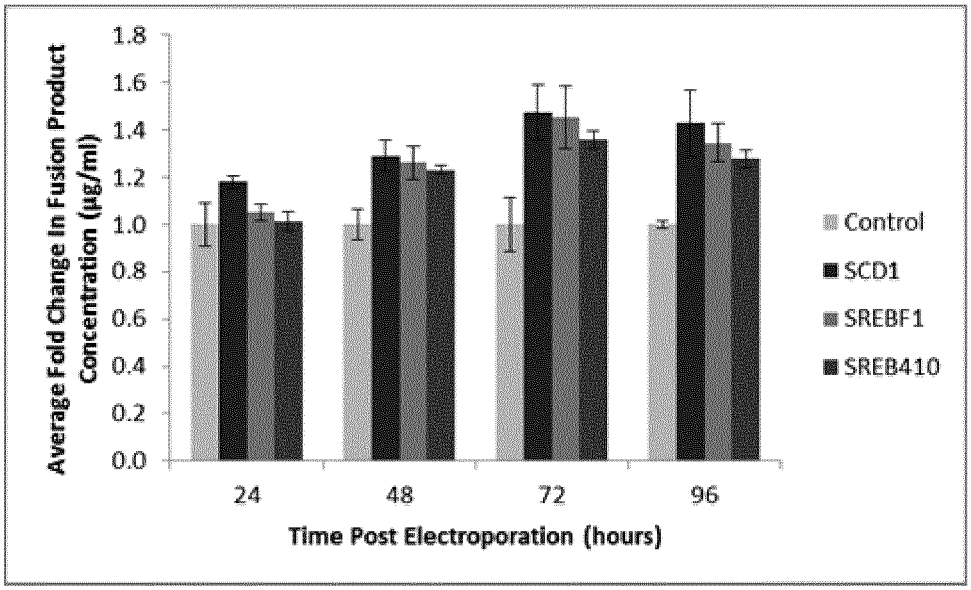

FIG. 11B

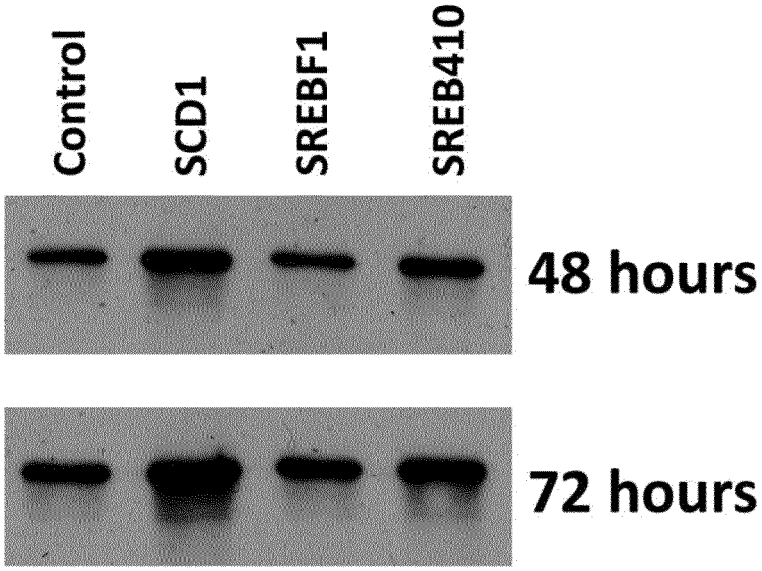

FIG. 12A

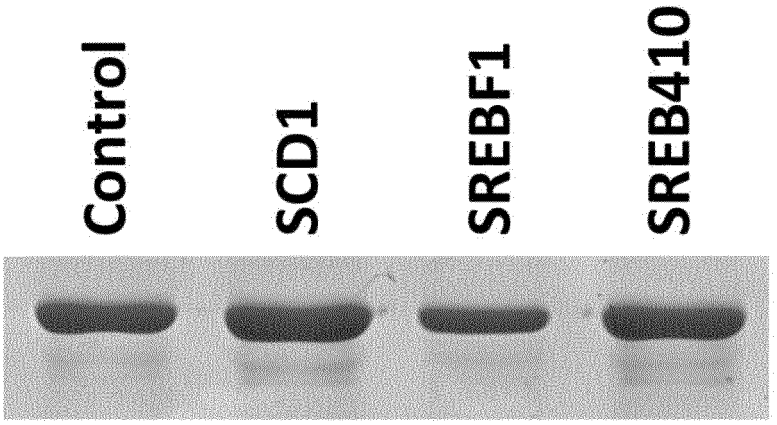

FIG. 12B

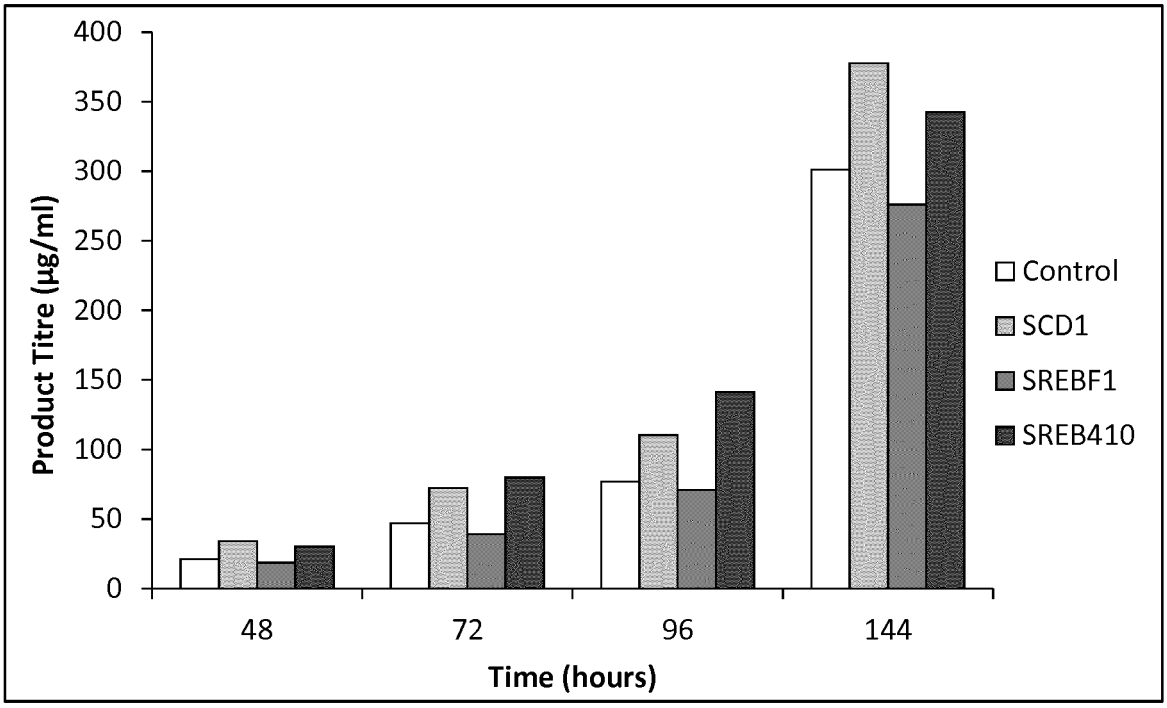
400
350
300
250
200
150
100
50
0
Product Titre (µg/ml)
48
72
96
144
Time (hours)
Control
SCD1
SREBF1
SREB410

FIG. 13

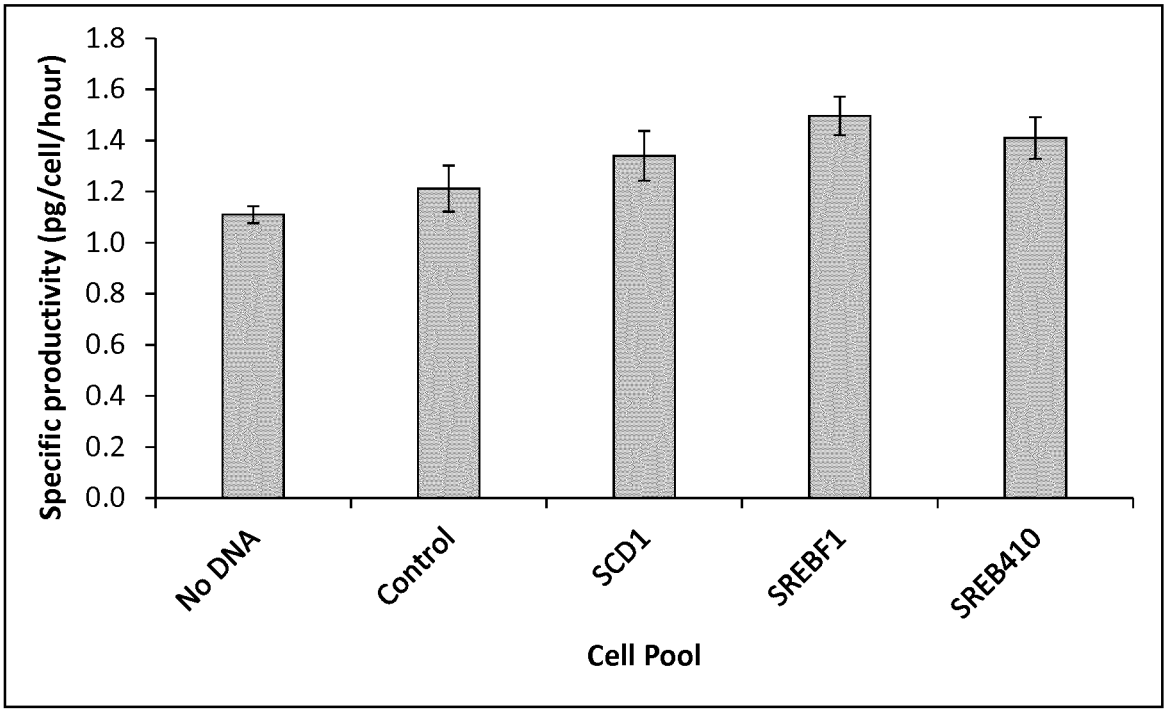
Specific productivity (pg/cell/hour)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
No DNA
Control
SCD1
SREBF1
SREB410
Cell Pool

FIG. 14

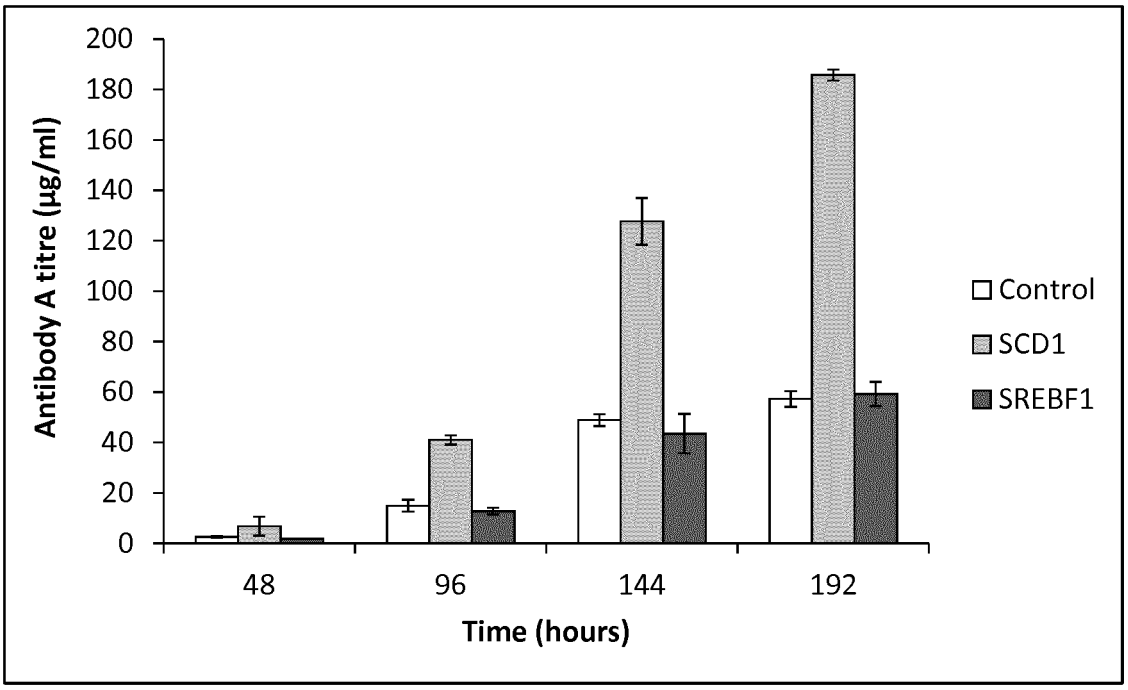

FIG. 15A

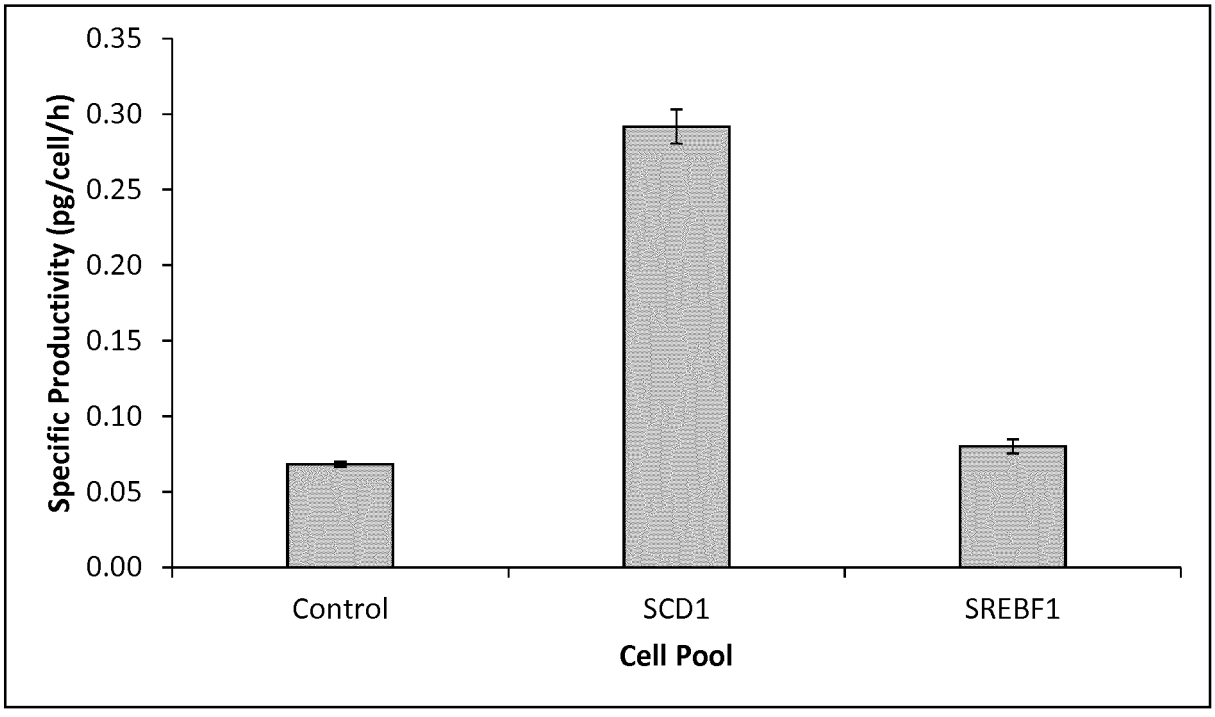

FIG. 15B

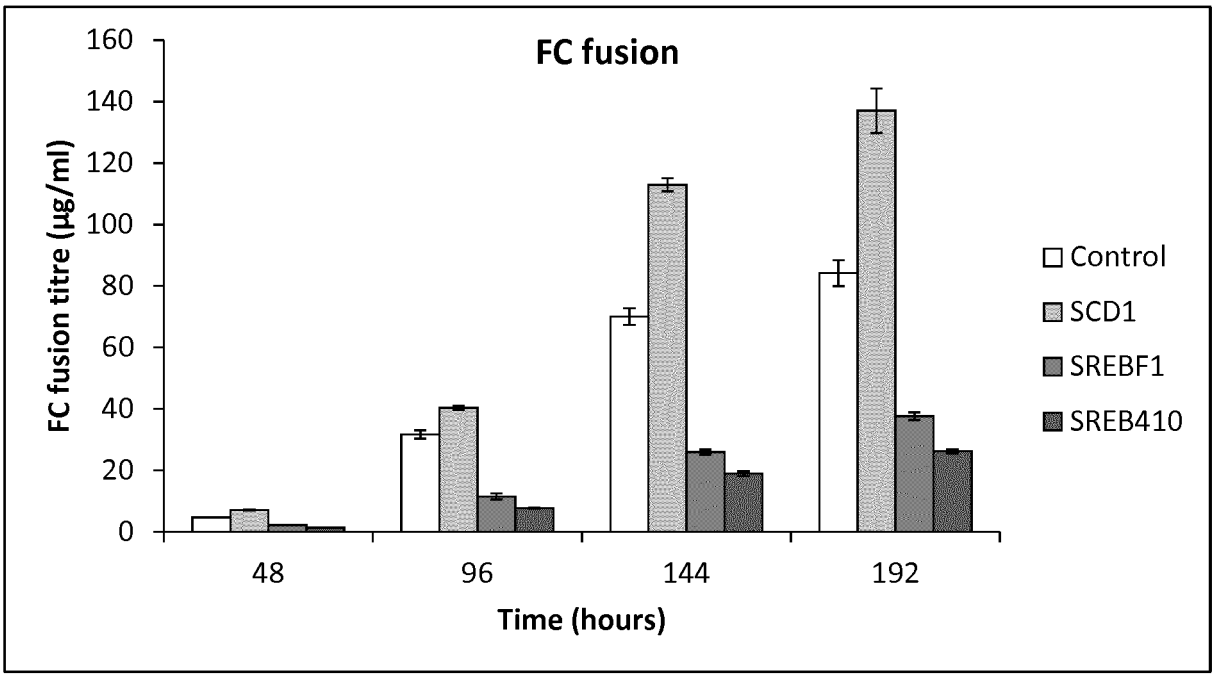

FIG. 16A

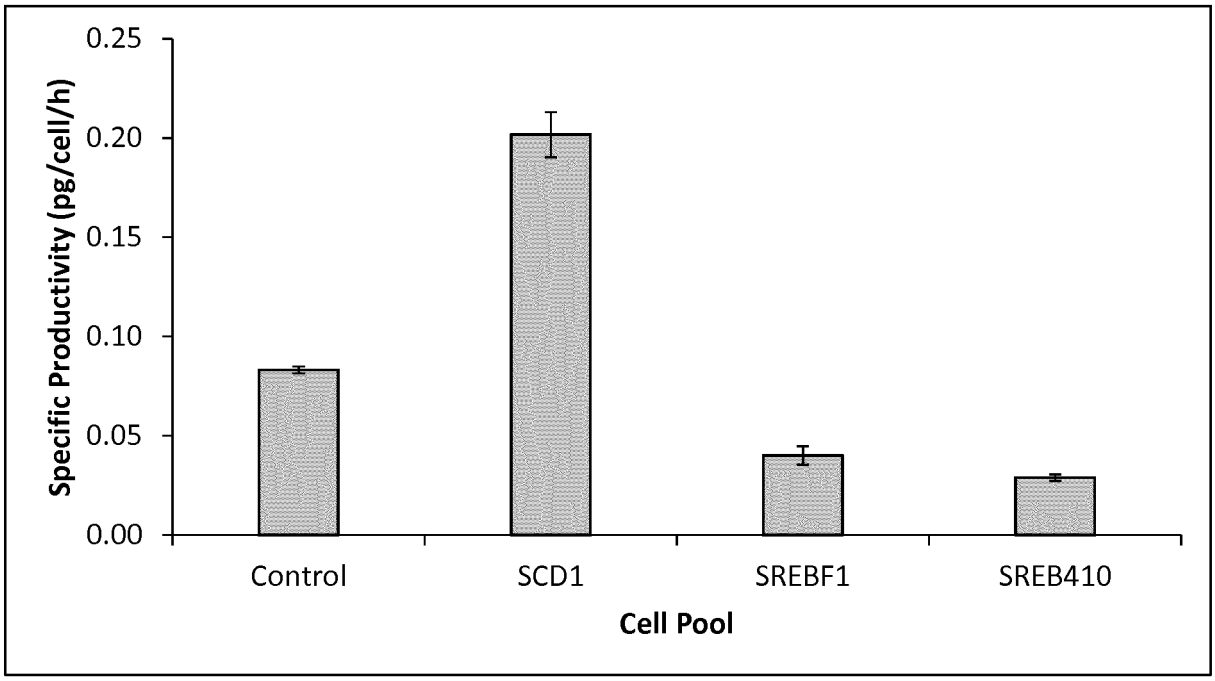

FIG. 16B

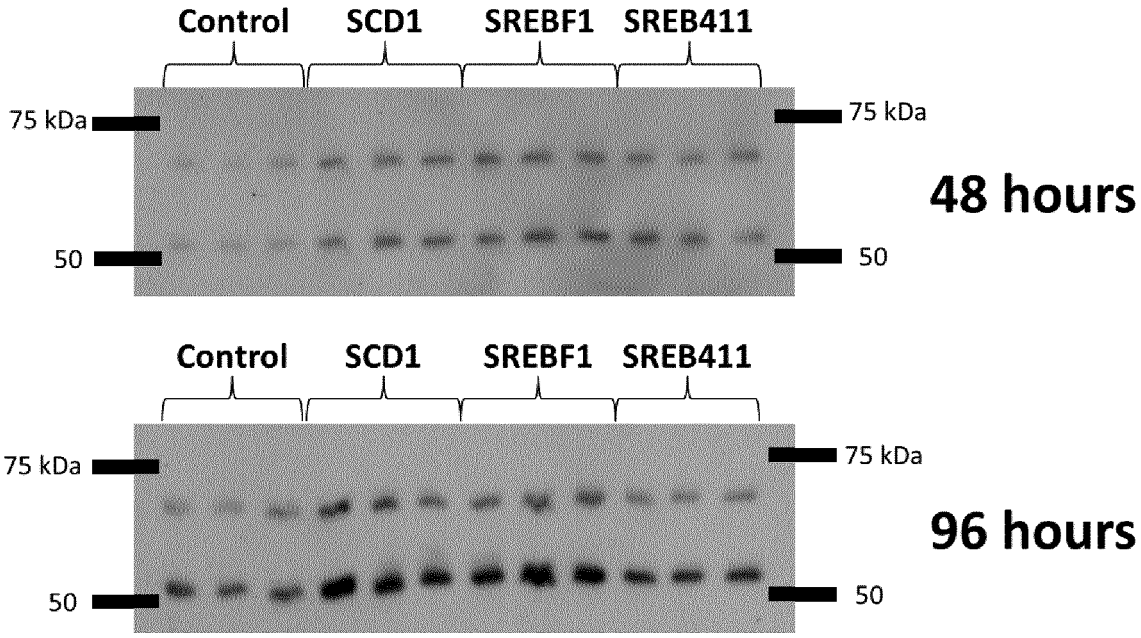

FIG. 17A

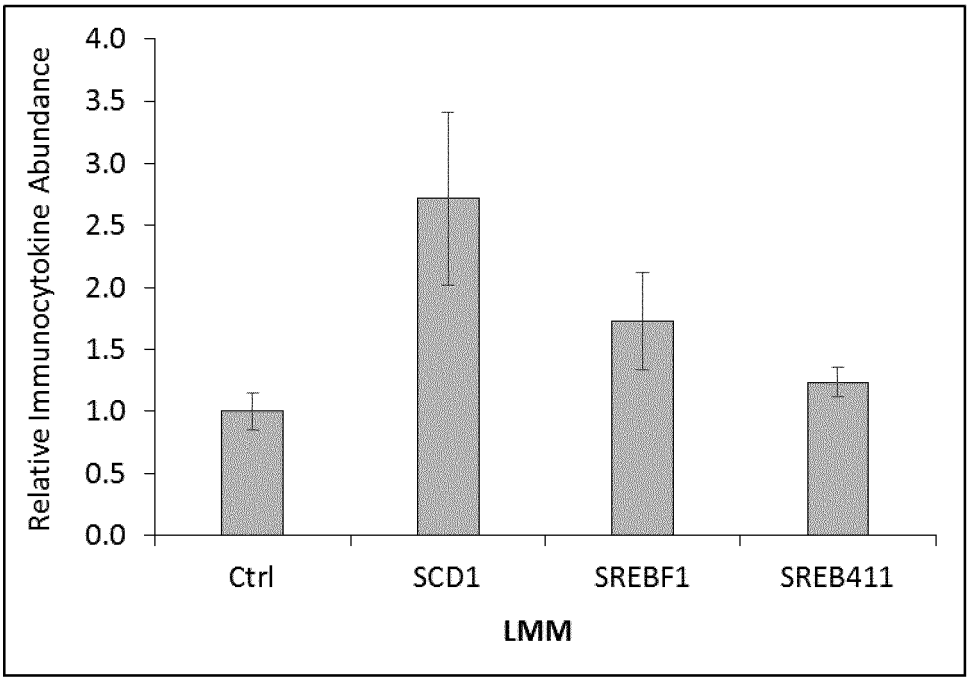

FIG. 17B