

Effects of C/EBP α overexpression on alveolar epithelial type II cell proliferation, apoptosis and surfactant protein-C expression after exposure to hyperoxia

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Supplementary information

Supplementary Materials:

Figure S1 Uncropped Western blots for Figure 1.

Figure S2 Overexpression of C/EBP α promotes cell proliferation after exposure to hyperoxia.

Figure S3 Overexpression of C/EBP α decreases cells apoptosis and necrosis after exposure to hyperoxia.

Figure S4 The part of original data for Figure 2.

Figure S5 The part of original data for Figure 3.

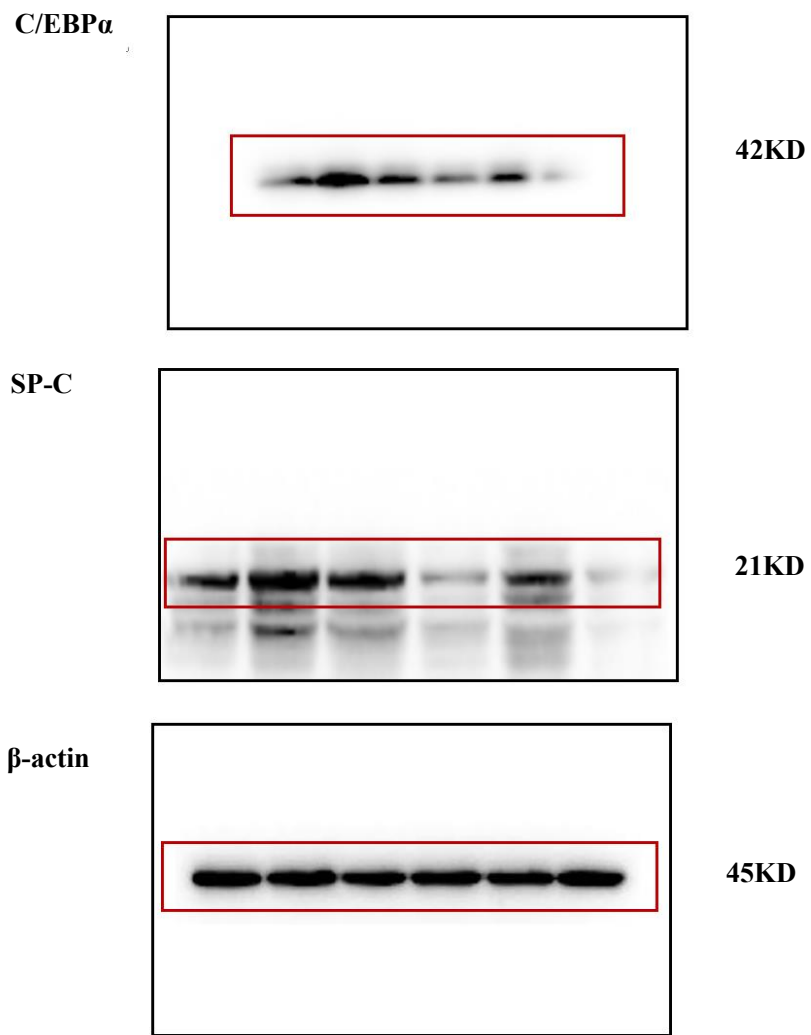


Figure S1 Uncropped Western blots for Figure 1b.

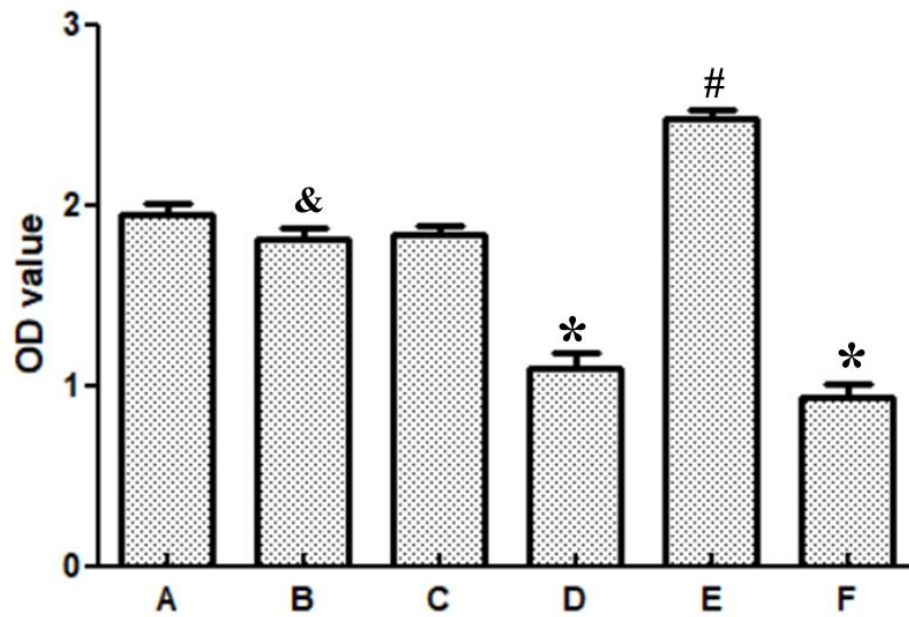


Figure S2. Overexpression of C/EBP α promotes cell proliferation

after exposure to hyperoxia. Cell proliferation was analyzed using CCK-8 assay following transfection of C/EBP α after 48 h. Data are presented as the mean $\pm$ SD from ten independent experiments (n=10); *P<0.05 vs. AG; #P<0.05 vs. HG or H+E; &P>0.05 vs. AG or A+E. A: AG; B: A+C group; C: A+E group; D: HG; E: H+C group; F: H+E group.

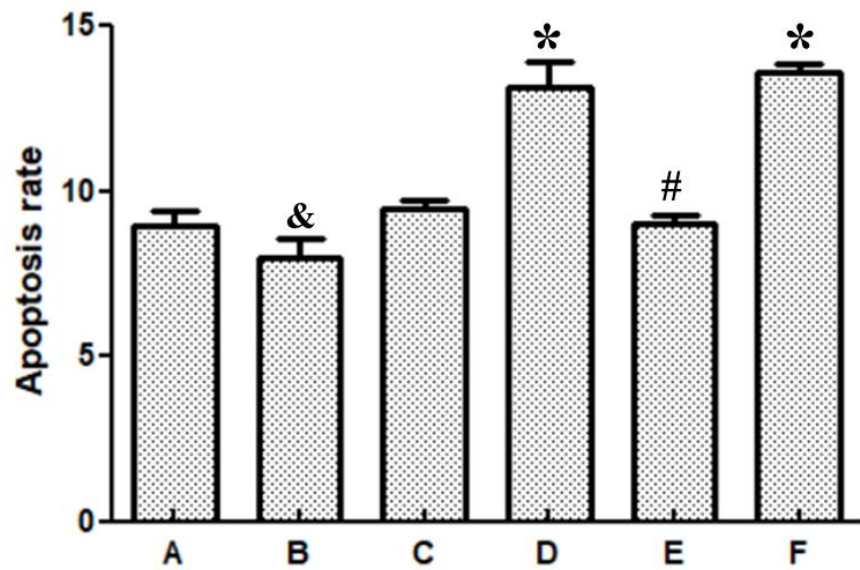
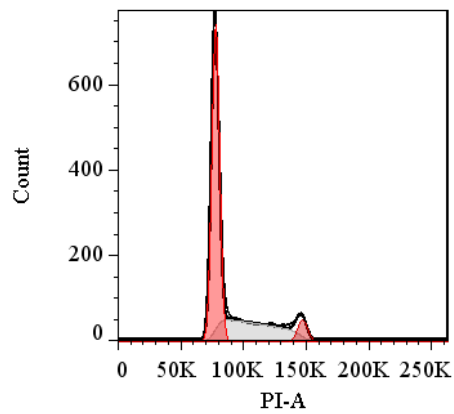
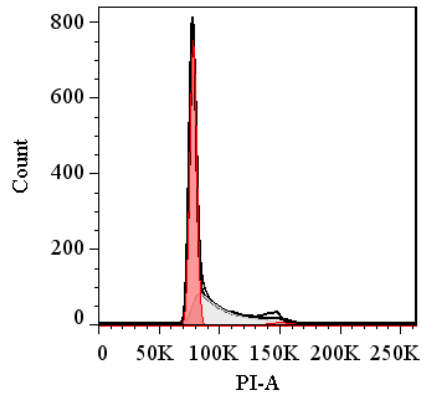


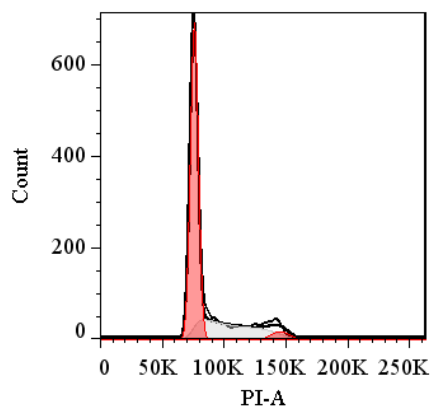
Figure S3. Overexpression of C/EBP α decreases cells apoptosis and necrosis after exposure to hyperoxia. Apoptosis rate of cells was analyzed by flow cytometry in each group. Values are mean $\pm$ SD from ten independent experiments (n=10); *P<0.05 vs. AG; #P<0.05 vs. HG or H+E; &P>0.05 vs. AG or A+E. A: AG; B: A+C group; C: A+E group; D: HG; E: H+C group; F: H+E group.



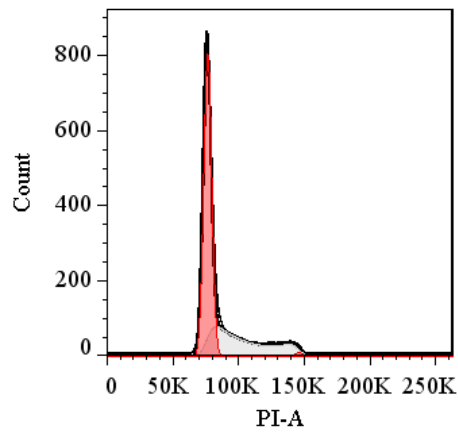
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 RMS = 3.28
 Freq. G1 = 64.03
 Freq. S = 31.27
 Freq. G2 = 5.71
 G1 Mean = 77568.11
 G2 Mean = 146524.12
 G1 cv = 5.62
 G2 cv = 3.87
 Freq. sub-G1 = -1.77
 Freq. super-G2 = -0.88
 8731



Specimen_001_2_002.fcs
 Cell Cycle
 Dean-Jett-Fox
 RMS = 1.99
 Freq. G1 = 61.98
 Freq. S = 35.67
 Freq. G2 = 2.85
 G1 Mean = 78035.33
 G2 Mean = 150019.03
 G1 cv = 5.05
 G2 cv = 10.43
 Freq. sub-G1 = -1.99
 Freq. super-G2 = -2.38
 8290

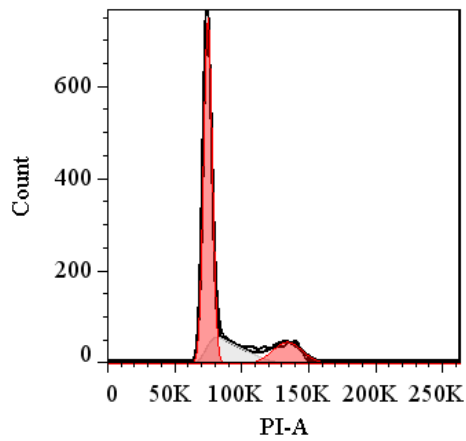


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 Dean-Jett-Fox
 RMS = 1.88
 Freq. G1 = 68.61
 Freq. S = 28.19
 Freq. G2 = 4.17
 G1 Mean = 75690.77
 G2 Mean = 144902.24
 G1 cv = 5.97
 G2 cv = 7.3
 Freq. sub-G1 = -1.29
 Freq. super-G2 = -2.09
 7901



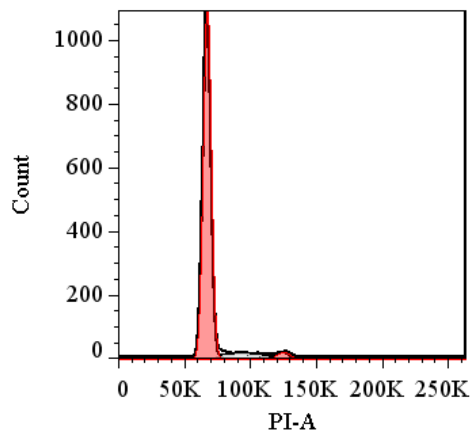
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 Freq. S = 34.3
 Freq. G2 = 0.89
 G1 Mean = 76258.2
 G2 Mean = 145405.23
 G1 cv = 5.54
 G2 cv = 2.94
 Freq. sub-G1 = -1.17
 Freq. super-G2 = -0.73

9211



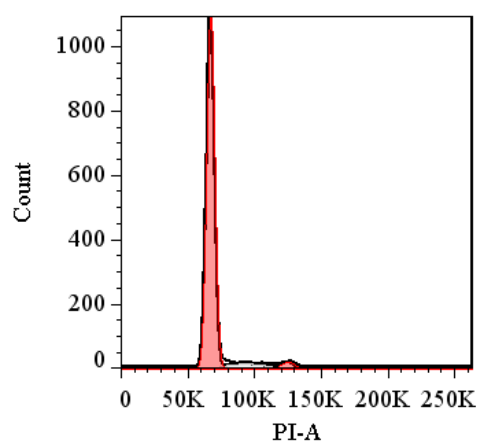
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 Freq. G1 = 67.54
 Freq. S = 20.15
 Freq. G2 = 14.55
 G1 Mean = 74538.88
 G2 Mean = 133708.89
 G1 cv = 6.04
 G2 cv = 11.73
 Freq. sub-G1 = -2.12
 Freq. super-G2 = -1.62

8635

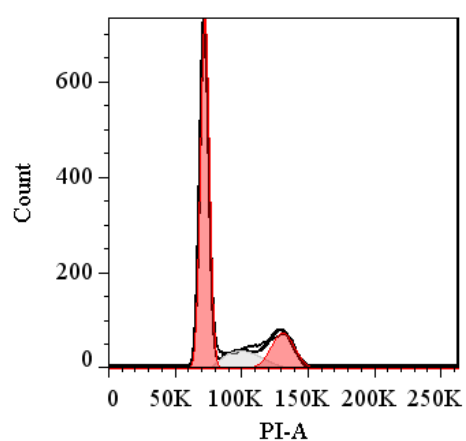


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 RMS = 1.66
 Freq. G1 = 91.09
 Freq. S = 5.95
 Freq. G2 = 3
 G1 Mean = 67047.61
 G2 Mean = 124783.02
 G1 cv = 6.27
 G2 cv = 5.62
 Freq. sub-G1 = 0.09
 Freq. super-G2 = -0.14

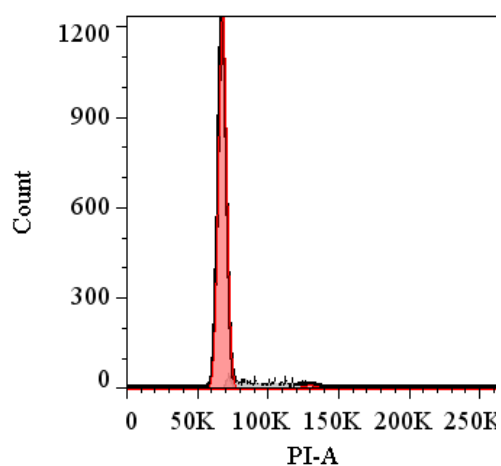
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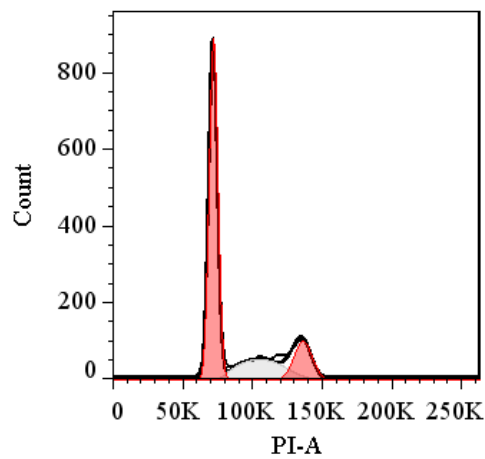
Specimen_001_7_007.fcs
 Cell Cycle
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 RMS = 1.66
 Freq. G1 = 91.09
 Freq. S = 5.95
 Freq. G2 = 3
 G1 Mean = 67047.61
 G2 Mean = 124783.02
 G1 cv = 6.27
 G2 cv = 5.62
 Freq. sub-G1 = 0.09
 Freq. super-G2 = -0.14
 9009



Specimen_001_8_008.fcs
 Cell Cycle
 Dean-Jett-Fox
 RMS = 2.05
 Freq. G1 = 68.94
 Freq. S = 13.72
 Freq. G2 = 18.24
 G1 Mean = 72174.83
 G2 Mean = 130300.12
 G1 cv = 6.5
 G2 cv = 9.47
 Freq. sub-G1 = 0.25
 Freq. super-G2 = -1.2
 8749

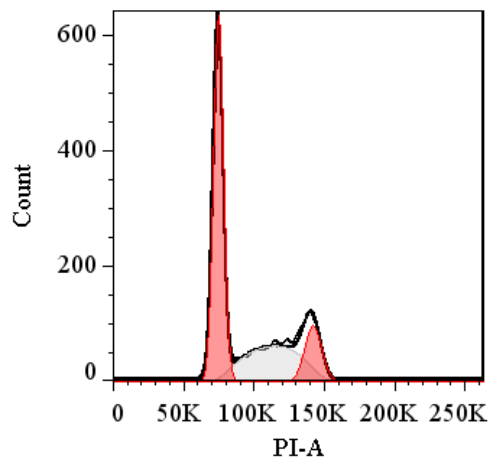


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 Cell Cycle
 Watson
 RMS = 3.06
 Freq. G1 = 92.29
 Freq. S = 6.41
 Freq. G2 = 2.01
 G1 Mean = 67645.4
 G2 Mean = 129243.22
 G1 cv = 6.06
 G2 cv = 6.96
 Freq. sub-G1 = 0.35
 Freq. super-G2 = -0.1
 9700



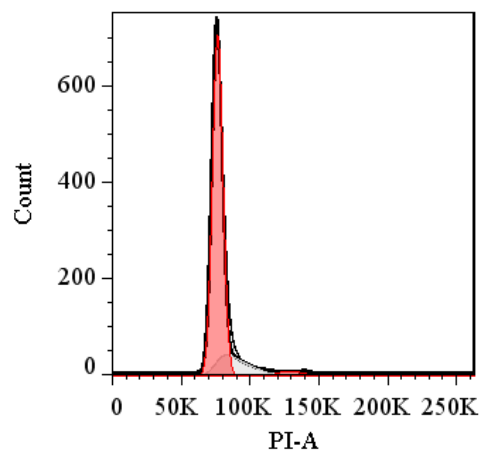
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 RMS = 1.69
 Freq. G1 = 64.35
 Freq. S = 20.16
 Freq. G2 = 15.13
 G1 Mean = 71850.73
 G2 Mean = 135678.09
 G1 cv = 6.1
 G2 cv = 6.8
 Freq. sub-G1 = 0.61
 Freq. super-G2 = -0.73

10479



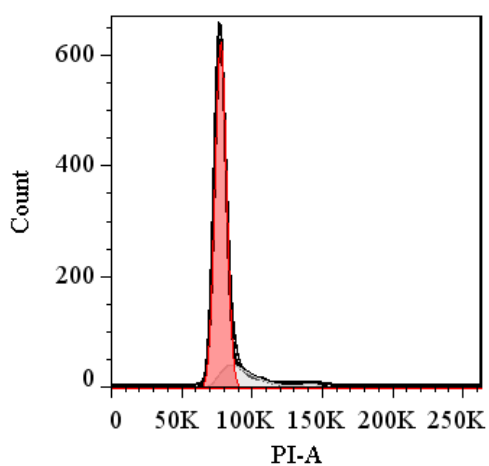
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 Cell Cycle
 Dean-Jett-Fox
 RMS = 1.66
 Freq. G1 = 55.46
 Freq. S = 30.21
 Freq. G2 = 14.04
 G1 Mean = 74561.79
 G2 Mean = 141496.77
 G1 cv = 6.86
 G2 cv = 6.01
 Freq. sub-G1 = 0.23
 Freq. super-G2 = -1.59

10129

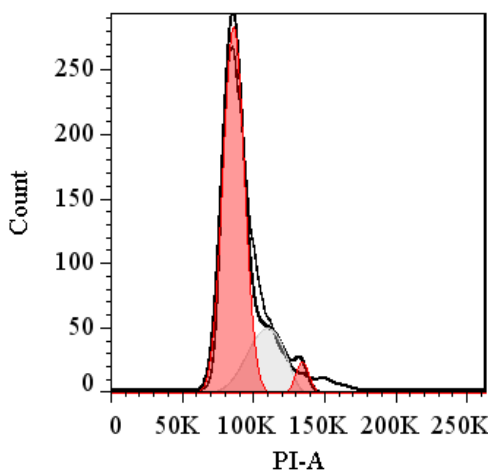


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 RMS = 2.02
 Freq. G1 = 82.93
 Freq. S = 14.51
 Freq. G2 = 2.78
 G1 Mean = 76229.52
 G2 Mean = 128915.29
 G1 cv = 7.02
 G2 cv = 9.79
 Freq. sub-G1 = -1.7
 Freq. super-G2 = -0.03

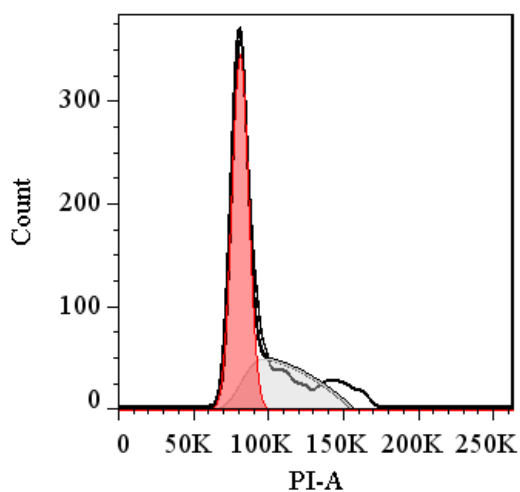
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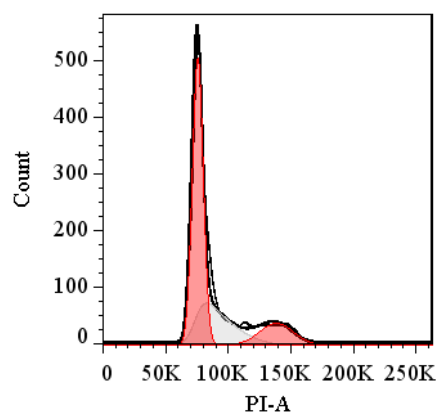
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 Dean-Jett-Fox
 RMS = 1.52
 Freq. G1 = 81.24
 Freq. S = 17.75
 Freq. G2 = 0.28
 G1 Mean = 77480.68
 G2 Mean = 147157.25
 G1 cv = 7.38
 G2 cv = 2.87
 Freq. sub-G1 = -1.08
 Freq. super-G2 = 0.31
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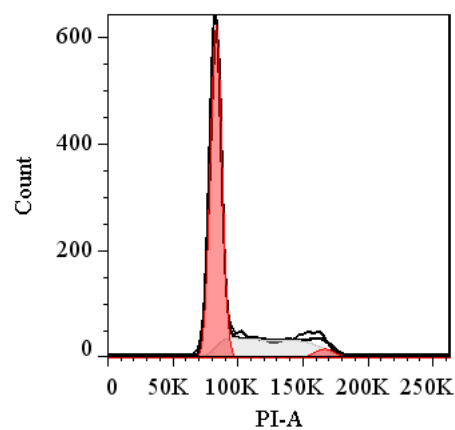
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 RMS = 2.34
 Freq. G1 = 73.41
 Freq. S = 21.89
 Freq. G2 = 3.86
 G1 Mean = 85670.99
 G2 Mean = 133703.71
 G1 cv = 12.31
 G2 cv = 4.86
 Freq. sub-G1 = -2.18
 Freq. super-G2 = 2.12
 7043



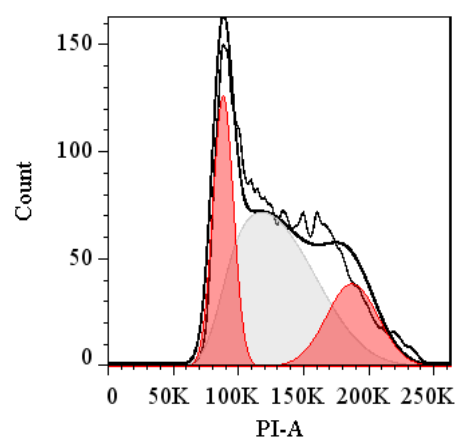
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 Dean-Jett-Fox
 RMS = 2.16
 Freq. G1 = 62.96
 Freq. S = 34.83
 Freq. G2 = 0
 G1 Mean = 80814.93
 G2 Mean = 158543.03
 G1 cv = 9.71
 G2 cv = 0
 Freq. sub-G1 = -1.84
 Freq. super-G2 = 2.13
 7428



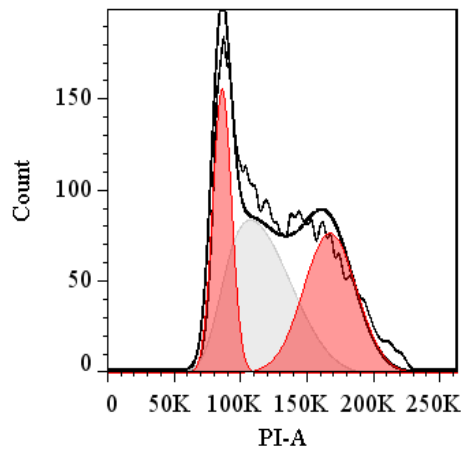
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 Cell Cycle
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 RMS = 2.67
 Freq. G1 = 58.81
 Freq. S = 27.13
 Freq. G2 = 13.95
 G1 Mean = 75396.58
 G2 Mean = 138000.13
 G1 cv = 8.05
 G2 cv = 13.83
 Freq. sub-G1 = -2.75
 Freq. super-G2 = -0.45
 9050



Specimen_001_7_007.fcs
 Cell Cycle
 Dean-Jett-Fox
 RMS = 2.6
 Freq. G1 = 67.29
 Freq. S = 28.16
 Freq. G2 = 3.13
 G1 Mean = 82902.17
 G2 Mean = 166150.12
 G1 cv = 7.48
 G2 cv = 6.62
 Freq. sub-G1 = 0.21
 Freq. super-G2 = -1.23
 9939

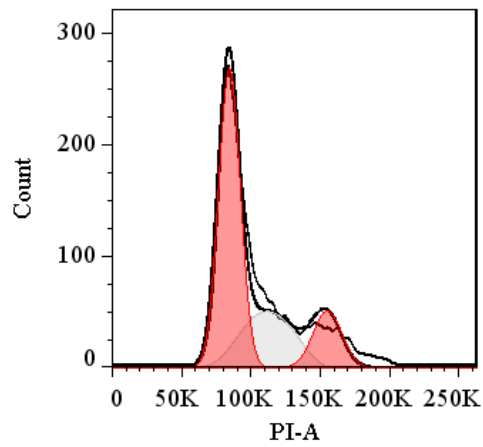


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 RMS = 2.26
 Freq. G1 = 24.49
 Freq. S = 56.11
 Freq. G2 = 18.87
 G1 Mean = 87947.44
 G2 Mean = 186365.42
 G1 cv = 12.53
 G2 cv = 14.97
 Freq. sub-G1 = -3.39
 Freq. super-G2 = -1.95
 9830



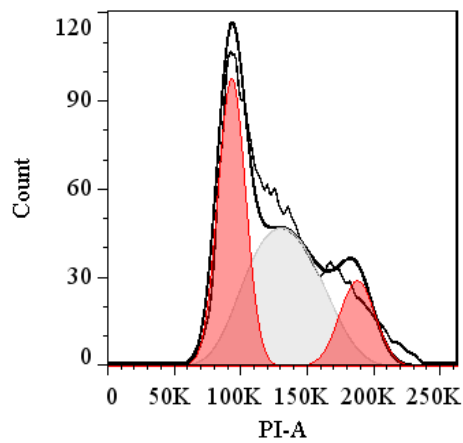
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 Cell Cycle
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 RMS = 2.71
 Freq. G1 = 23.44
 Freq. S = 42.51
 Freq. G2 = 32.31
 G1 Mean = 85812.73
 G2 Mean = 166617.52
 G1 cv = 11.57
 G2 cv = 16.72
 Freq. sub-G1 = -3.38
 Freq. super-G2 = 0.76

11415



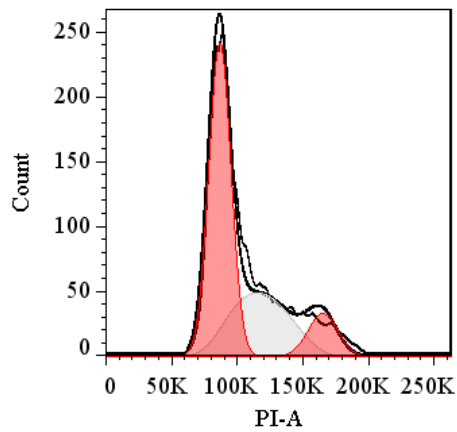
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 Freq. G1 = 57.92
 Freq. S = 26.03
 Freq. G2 = 14.81
 G1 Mean = 84220.76
 G2 Mean = 154600.74
 G1 cv = 13.11
 G2 cv = 9.51
 Freq. sub-G1 = -1.76
 Freq. super-G2 = 1.91

8858



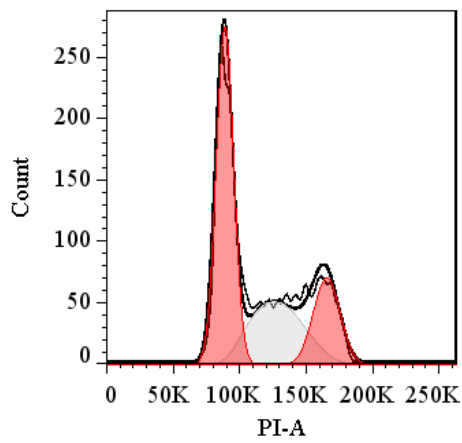
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 RMS = 1.63
 Freq. G1 = 36.97
 Freq. S = 47.99
 Freq. G2 = 14.13
 G1 Mean = 92930.39
 G2 Mean = 186964.95
 G1 cv = 15.71
 G2 cv = 10.06
 Freq. sub-G1 = -2.81
 Freq. super-G2 = 0.04

6672



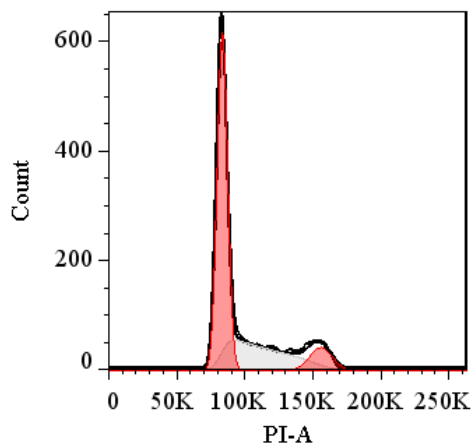
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 RMS = 1.83
 Freq. G1 = 57.94
 Freq. S = 31.74
 Freq. G2 = 10.81
 G1 Mean = 86401.62
 G2 Mean = 164565.05
 G1 cv = 13.77
 G2 cv = 9.78
 Freq. sub-G1 = -2.64
 Freq. super-G2 = -0.29

8593



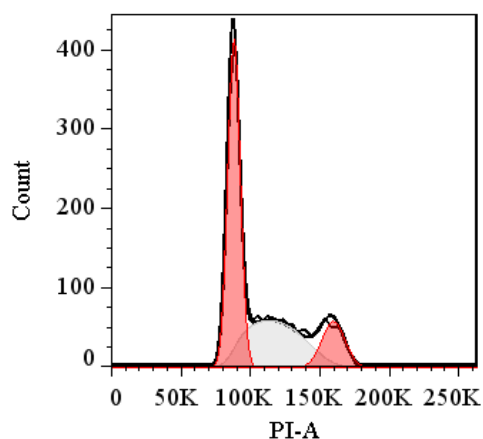
Specimen_001_2_002.fcs
 Cell Cycle
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 RMS = 2.24
 Freq. G1 = 51.42
 Freq. S = 29.77
 Freq. G2 = 20.24
 G1 Mean = 88614.03
 G2 Mean = 164816.79
 G1 cv = 10.43
 G2 cv = 8.6
 Freq. sub-G1 = -0.75
 Freq. super-G2 = -1.88

8537

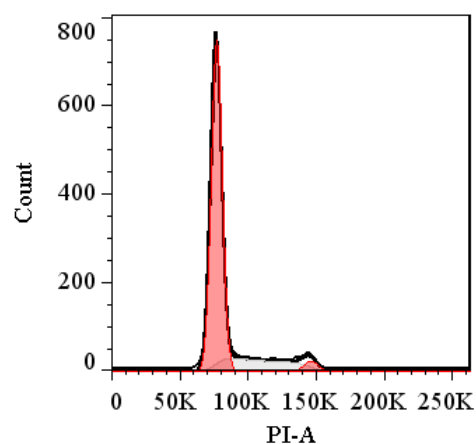


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 RMS = 1.69
 Freq. G1 = 61.45
 Freq. S = 29.82
 Freq. G2 = 9.16
 G1 Mean = 83200.27
 G2 Mean = 155326.97
 G1 cv = 6.46
 G2 cv = 7.58
 Freq. sub-G1 = -1.55
 Freq. super-G2 = -1.44

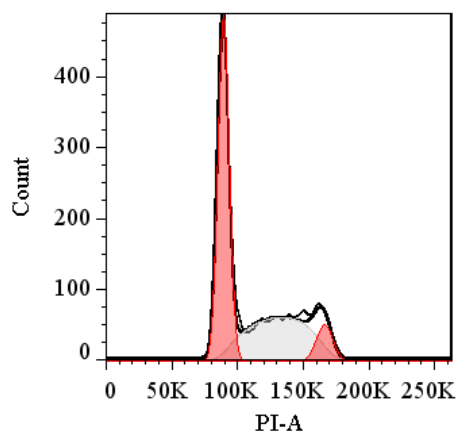
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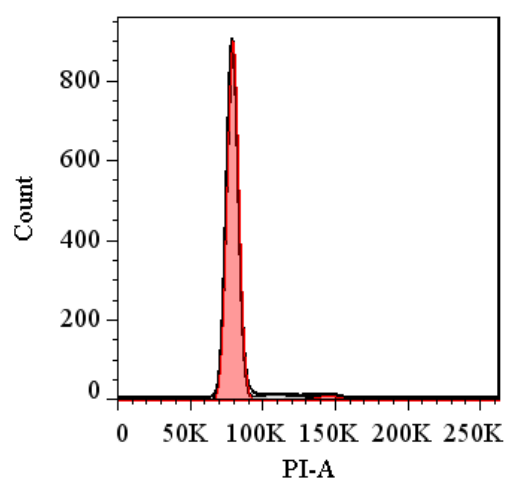
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 RMS = 1.48
 Freq. G1 = 52.39
 Freq. S = 35.16
 Freq. G2 = 13.56
 G1 Mean = 87819.2
 G2 Mean = 158987.09
 G1 cv = 7.2
 G2 cv = 7.34
 Freq. sub-G1 = -1.74
 Freq. super-G2 = -1.15
 8621



Specimen_001_3_003.fcs
 Cell Cycle
 Dean-Jett-Fox
 RMS = 1.68
 Freq. G1 = 78.18
 Freq. S = 17.85
 Freq. G2 = 3.13
 G1 Mean = 76763.59
 G2 Mean = 145708.77
 G1 cv = 7.41
 G2 cv = 5.05
 Freq. sub-G1 = 0.04
 Freq. super-G2 = -0.6
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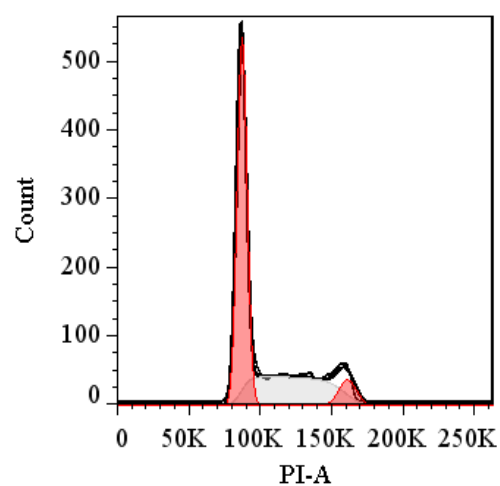


Specimen_001_4_004.fcs
 Cell Cycle
 Dean-Jett-Fox
 RMS = 1.46
 Freq. G1 = 53.39
 Freq. S = 38.55
 Freq. G2 = 8.1
 G1 Mean = 89066.93
 G2 Mean = 165490.98
 G1 cv = 6.81
 G2 cv = 5.32
 Freq. sub-G1 = -0.54
 Freq. super-G2 = -1.56
 9554



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Specimen_001_5_005.fcs
Cell Cycle
Dean-Jett-Fox
RMS = 1.59
Freq. G1 = 93.34
Freq. S = 4.05
Freq. G2 = 2.44
G1 Mean = 79324.05
G2 Mean = 144881.71
G1 cv = 7.09
G2 cv = 8.25
Freq. sub-G1 = 0.48
Freq. super-G2 = -0.36

9430
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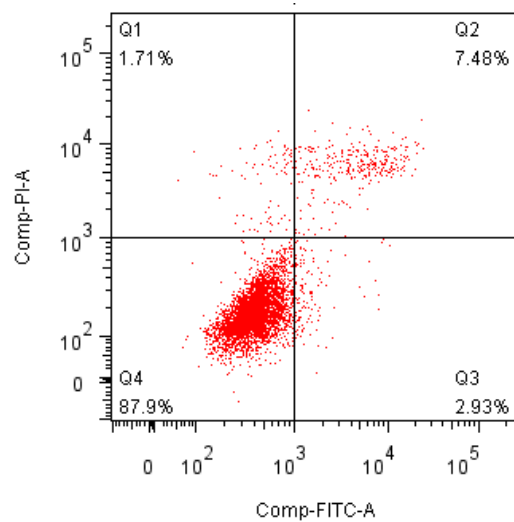
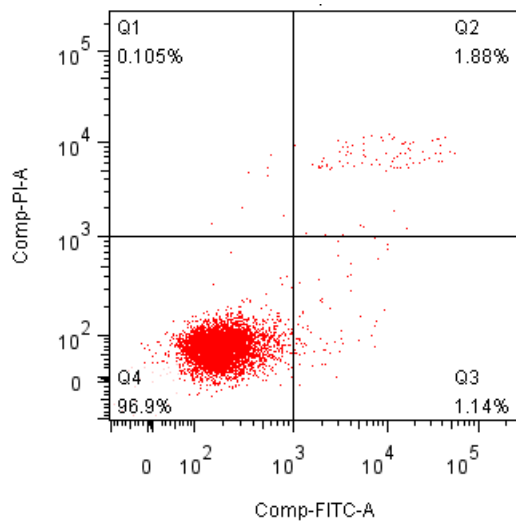
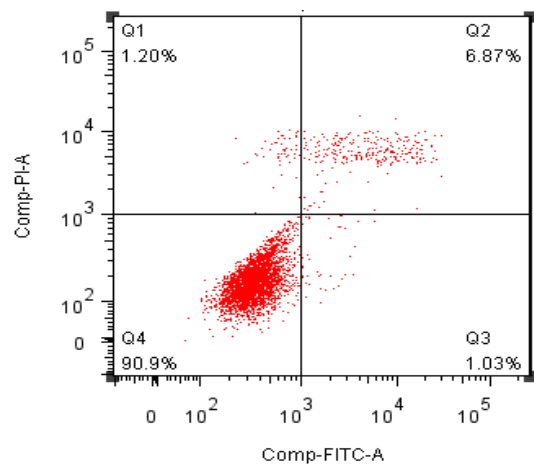
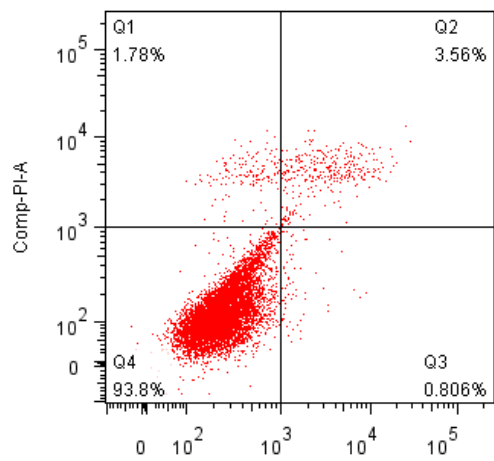
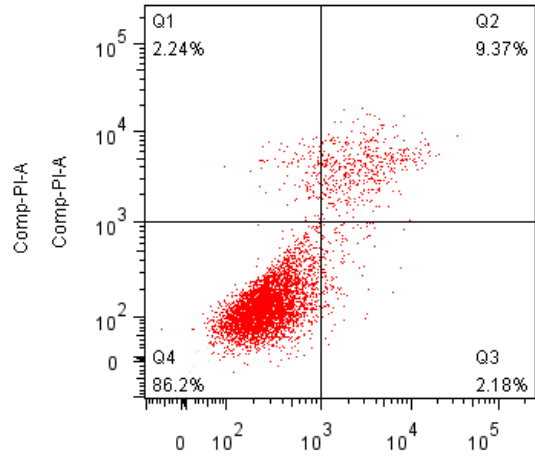
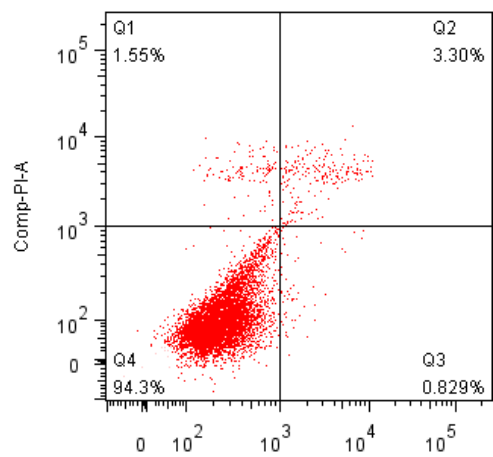


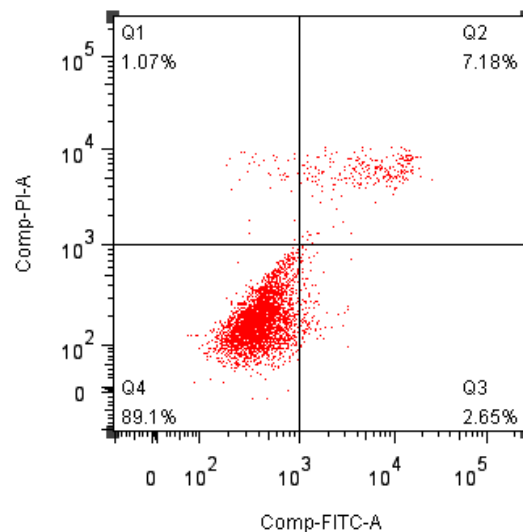
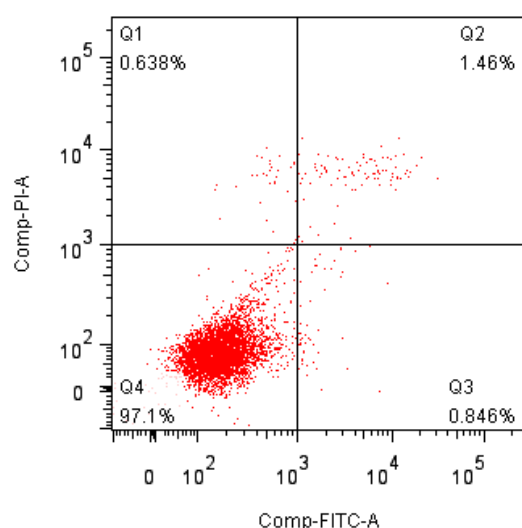
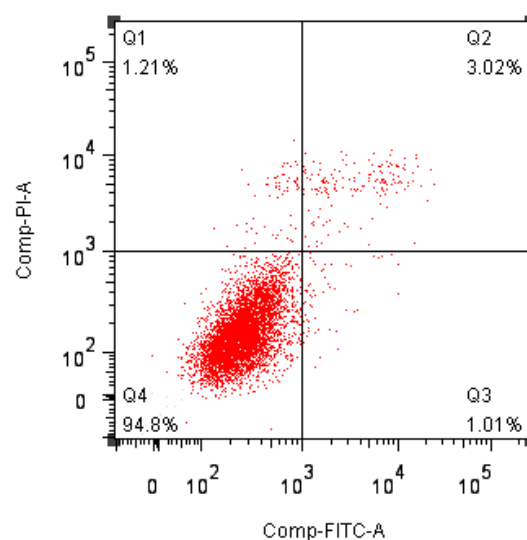
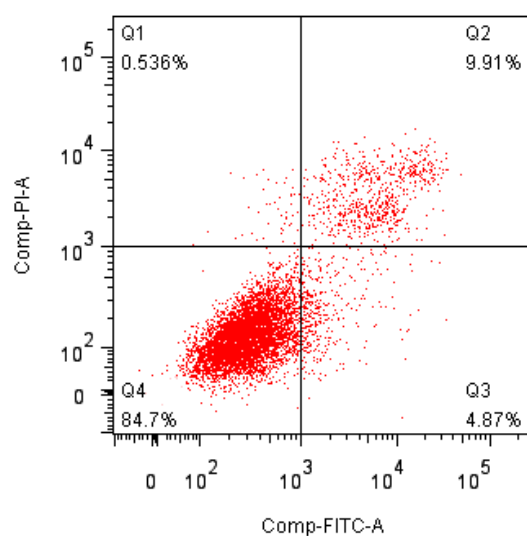
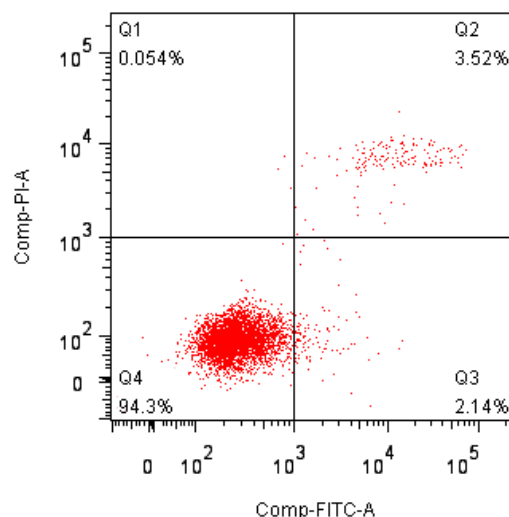
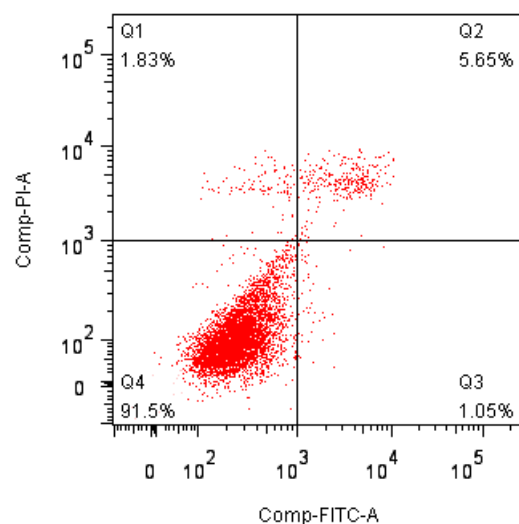
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Specimen_001_6_006.fcs
Cell Cycle
Dean-Jett-Fox
RMS = 1.62
Freq. G1 = 57.73
Freq. S = 35.65
Freq. G2 = 7.05
G1 Mean = 87045.58
G2 Mean = 160512.1
G1 cv = 5.62
G2 cv = 5.43
Freq. sub-G1 = -0.53
Freq. super-G2 = -2.33

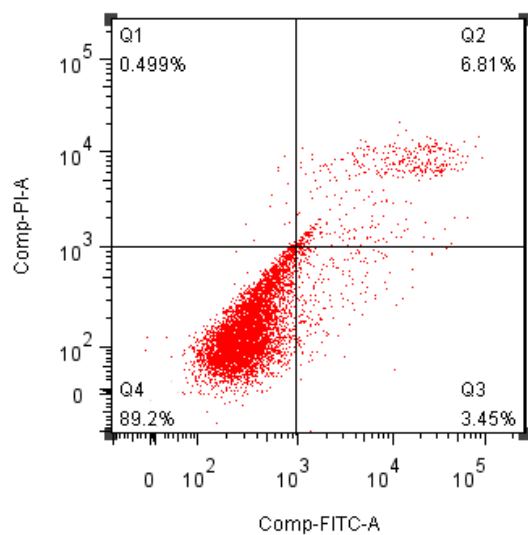
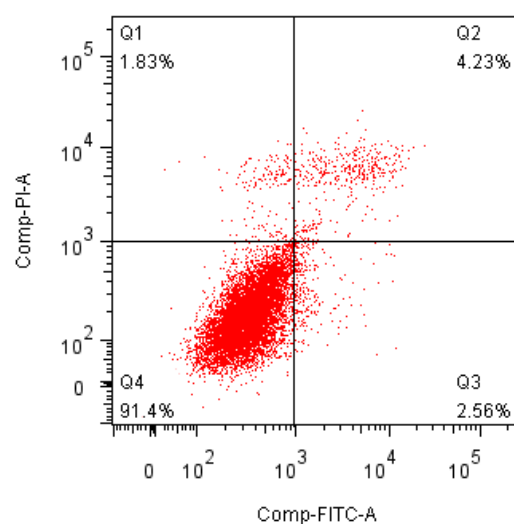
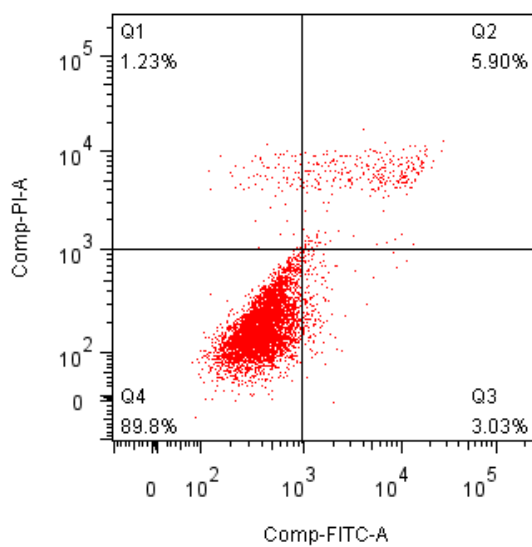
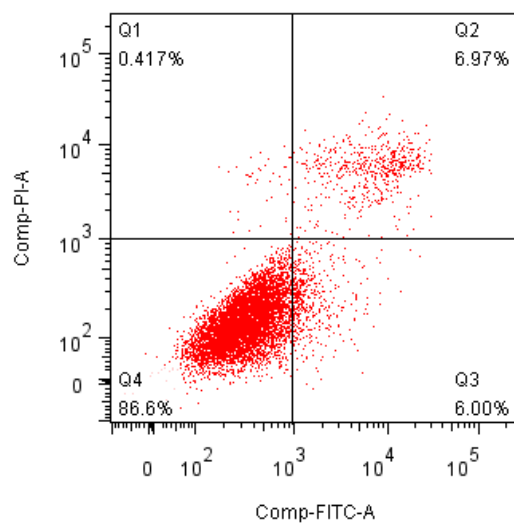
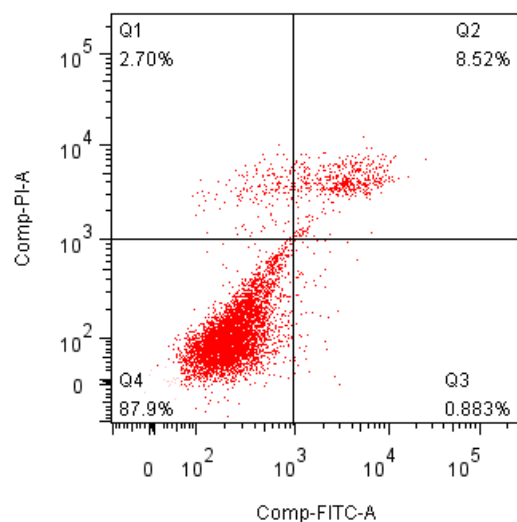
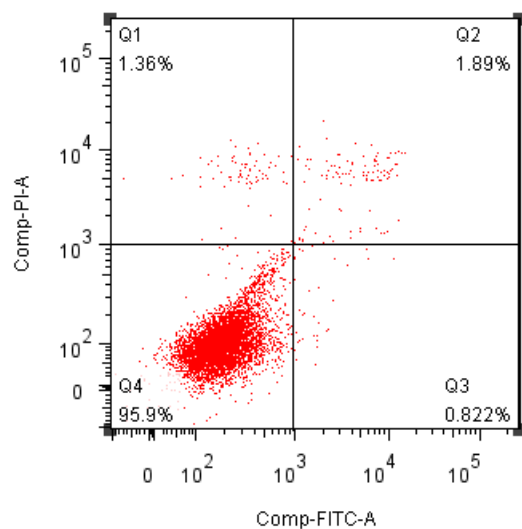
7831
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Figure S4 The part of original data for Figure 2.







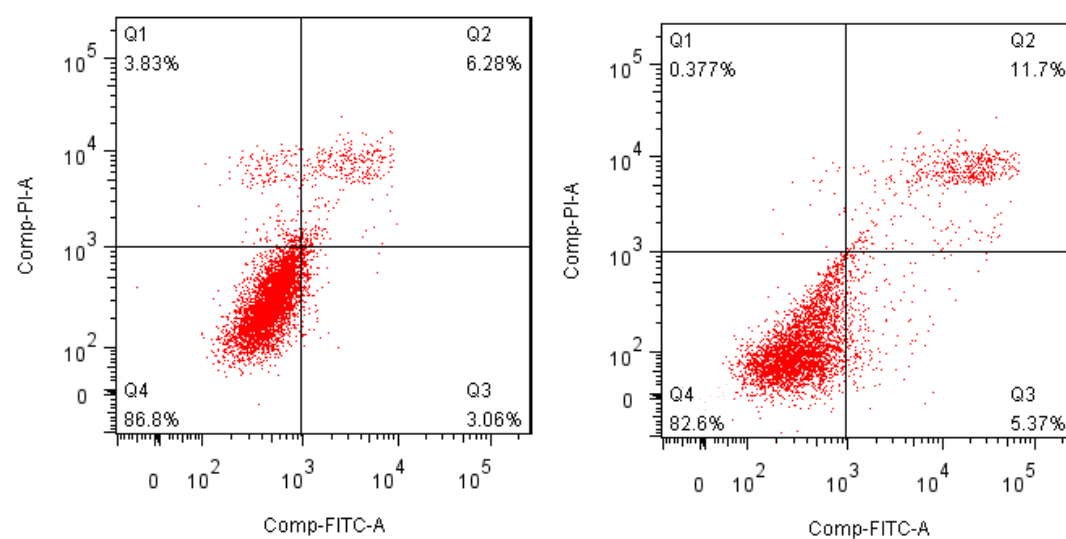


Figure S5 The part of original data for Figure 3.