Supplementary figure 2

CD3 activation

A

CD8

PD-1 · Tex* · Tex^term

TNF-α

IFN-γ

CD8

Glut-1 MFI

B

% of TNF-α+ CD8

% of IFN-γ+ TNF-α+

CTR EC HIV-1

C

% of Max

Glut-1

D

Glut-1 MFI CD8

E

% of Max

Glut-1

CTR

EC

HIV-1

Tex^int

Tex^term

Tex^int

Tex^term

Glut-1 MFI Tex^int

Glut-1 MFI Tex^term
**Supplementary figure 3**

**Gag-HIV-1**

**A**

- Scatter plot showing the % of CD8 IFN-γ+ PD-1+ TIGIT+ cells.
- Counts: 3.36, 82.2

**Gag-EC**

- Scatter plot showing the % of CD8 IFN-γ+ PD-1+ TIGIT+ cells.
- Counts: 0.16, 0.57

**B**

- Histogram showing the Glut-1 MFI within CD8 IFN-γ+ cells.
- Global CD8:
  - Gag: 6.45
  - CMV: 12.4
- Glut-1 MFI (within CD8 IFN-γ+ cells):
  - Global CD8:
    - Gag: 82.2
    - CMV: 64.5
  - Glut-1 MFI (within CD8 IFN-γ+ cells):
    - Global CD8:
      - Gag: 0.16
      - CMV: 0.57
Supplementary figure 4

A

CTR

HIV-1

JC-1 red

0

1

2

3

4

JC-1 green

0

1

2

3

4

JC-1 Red/green Ratio

0

1

2

3

4

B

CTR

HIV-1

JC-1 Red/green Ratio

0

1

2

3

4

C

HIV-1

T-bet^{low}EOMES^{hi}PD-1^{+}CD8

Global CD8

D

Global CD8

T-bet^{low}EOMES^{hi}PD-1^{+}CD8

JC-1 Red/green Ratio

0

1

2

3
Supplementary figure 6

A

Basal

Rotenone

B

% of MitoSOX

0 20 40 60

Basal Rot