

A**Gag V63A**

Gag⁵³⁻⁶⁷ NL15 NKEGECQKILSVLAPL
 Gag⁵⁷⁻⁷¹ CG15 CQKILSVLAPLVPTG
 Gag⁶¹⁻⁷⁵ LL15 LSVLAPLVPTGSENL

Gag D205E

Gag¹⁹³⁻²⁰⁷ VI15 VGDHQAAQIIRDII
 Gag¹⁹⁷⁻²¹¹ QA15 QAAQIIRDINEEA
 Gag²⁰¹⁻²¹⁵ QD15 QIIRDIINEEAADWD

Gag R276K

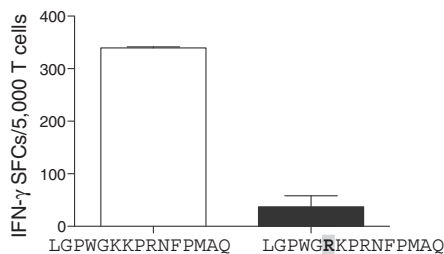
Gag²⁶⁵⁻²⁷⁹ RN15 RWIQLGLQKCVRYMYN
 Gag²⁶⁹⁻²⁸³ LI15 LGLQKCVRYMYNPTNI
 Gag²⁷³⁻²⁸⁷ KK15 KCVRYMYNPTNILDVK

Gag K442R

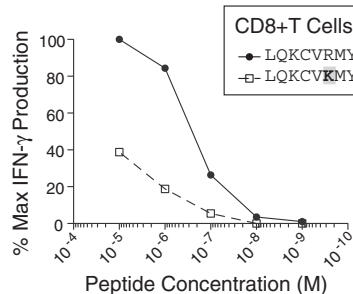
Gag⁴³³⁻⁴⁴⁷ GF15 GFLGLGPWGKKPRNF
 Gag⁴³⁷⁻⁴⁵¹ LQ15 LGPWGKKPRNFPMAQ
 Gag⁴⁴¹⁻⁴⁵⁵ GG15 GKKPRNFPMAQVHQG

B

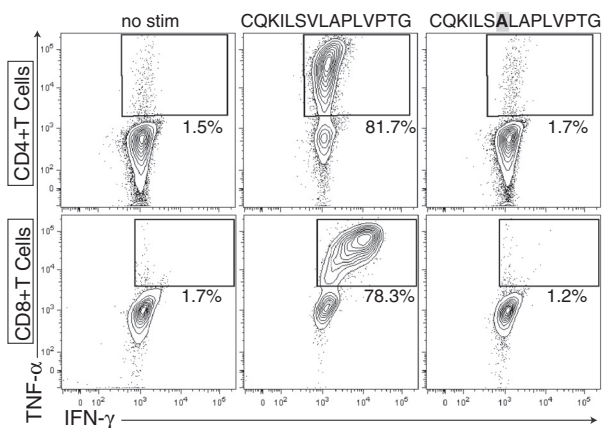
Mutation	CD8/CD4 T cell	Minimal Epitope	MHC Restriction
Gag K442R	CD8	N.D.	N.D.

**C**

Mutation	CD8/CD4 T cell	Minimal Epitope	MHC Restriction
Gag R276K	CD4	KCVRYMYNPTNILDVK	DPB1*12
Gag R276K	CD8	LQKCVRYMY	B*81:01

**D**

Mutation	CD8/CD4 T cell	Minimal Epitope	MHC Restriction
Gag V63A	CD4	QKILSVLAPLVP	DRB1*10:07
Gag V63A	CD8	N.D.	N.D.#

**E**

Mutation	CD8/CD4 T cell	Minimal Epitope	MHC Restriction
Gag D205E	CD4	AAQIIRDINEE	DRB*W4:01

