NK cell
Virus-infected cell

Activation receptor ligand
Activation receptor

IFN-γ
TNF-α

IL-2

Perforin
Granzyme

Reduced per-cell cytotoxicity
Decreased signal transduction
Reduced response to cytokines
Impaired cytokine production
Compensatory increase in cell numbers
Ageing

Proliferation

Reduced signal transduction

Decreased response to cytokines

Impaired cytokine production

Compensatory increase in cell numbers

Ageing