

TOLERANCE

- Antigen-specific unresponsiveness
- V genes encode anti-self receptors
- Acquired characteristic
- Central tolerance occurs in primary lymphoid organs during lymphocyte maturation
- Peripheral tolerance occurs in secondary lymphoid organs involving mature cells
- Time dependent
- Antigen concentration dependent
Low vs. High Zone Tolerance

Mechanisms of T Cell Tolerance

- Deletion
- Antigen Sequestration
Immunologically Privileged Site
- Suppression
- Anergy
- Immunological Ignorance

DELETION

- Cells killed
- Main mechanism of central tolerance:
Negative selection in thymus
- Activation-induced cell death
Peripheral tolerance mechanism
Cells die during an immune response
Mediated by Fas pathway