Activating CD4⁺ and CD8⁺ T cells:
Which peptides match?

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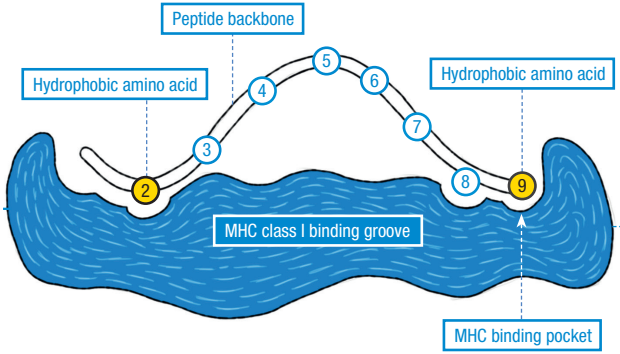
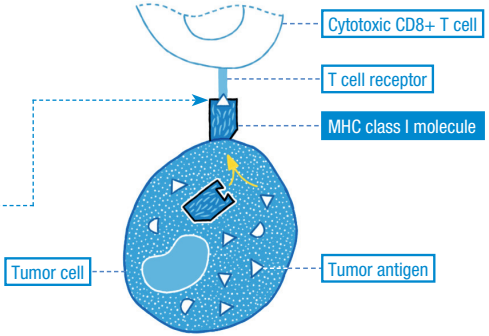
Intracellular tumor antigen

To activate **CD8⁺ T cells**, peptides must bind to **MHC Class I**:

- typical peptide length: 8–10 residues; best: 9 residues.
- hydrophobic anchor residues at positions 2 and 9



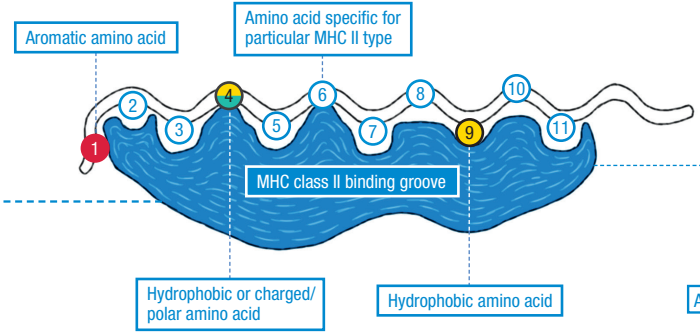


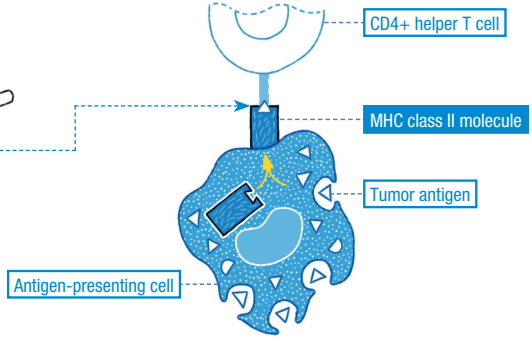
Extracellular tumor antigen

① – ⑪ Amino acid residue

To activate **CD4⁺ T cells**, peptides must bind to **MHC Class II**:

- more variable length of peptides: 13–25 residues
- Anchor residues at positions 1, 4, 6 and 9





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