

MHC Class 1 Molecules

- Present **linear** foreign peptides which are most commonly 9 or 10 amino acids long
- Anchor sites (2 and 9) are usually important for binding and recognition
- Mutations which alter the peptide can hinder or prevent CTL response activation

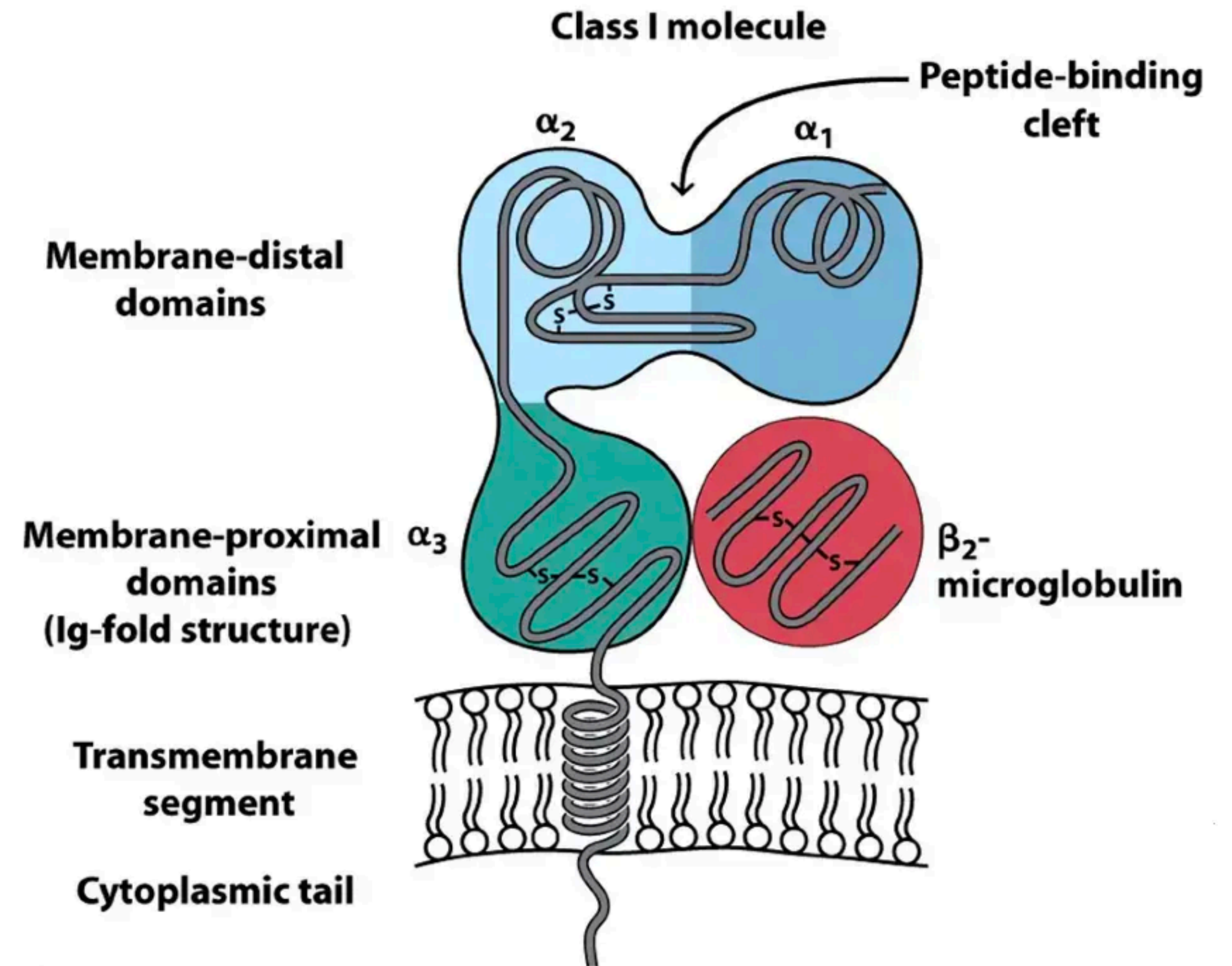


Figure 8-3
Kuby IMMUNOLOGY, Sixth Edition
© 2007 W.H. Freeman and Company

Rapid SIV sequence evolution in macaques in response to CTL-driven selection

- SIV: the only animal model of HIV (rhesus macaques)
- Experimental infection with MHC-matched strain of SIV
- Virus sequenced from a sample 2 weeks post infection
- Only variation was in an epitope recognized by the MHC
 - CTL *escape*

