



**Figure 9. Mechanisms Controlling Allelic Exclusion at the *Igκ* Locus**

Subnuclear relocation, DNA demethylation, and histone acetylation contribute to the selection of one *Igκ* allele for  $V_{\kappa}$ - $J_{\kappa}$  recombination in pre-B cells. See text for detailed explanation. The distal  $V_{\kappa}$  region (red) and proximal  $J_{\kappa}$ - $C_{\kappa}$  domain (green) of the *Igκ* locus are indicated, together with their location relative to the repressive compartments at the nuclear periphery (gray) and centromeric heterochromatin (blue). The locus contraction, DNA methylation (me), and histone acetylation (ac) states of the two *Igκ* alleles are schematically shown for different developmental stages including activated mature B cells.