



FIG. 2. Growth phase-dependent variation in the intracellular levels of 12 DNA-binding proteins in *E. coli* W3110. For measurement of the concentrations of each DNA-binding protein, aliquots of cell lysates containing 15  $\mu$ g of total proteins were subjected to SDS-PAGE (with a 10% gel for DnaA; a 12.5% gel for CbpA, CbpB, and IciA; and a 16.5% gel for Dps, Fis, Hfq, H-NS, HU, IHF, Lrp, and StpA) and proteins were electroblotted onto polyvinylidene difluoride membranes. The blots were probed with anti-CbpA (A), anti-CbpB or anti-Rob (B), anti-DnaA (C), anti-Dps (D), anti-Fis (E), anti-Hfq (F), anti-H-NS (G), anti-HU (H), anti-IciA (I), anti-IHF (J), anti-Lrp (K), or anti-StpA (L) antibodies. After immunostaining, the intensity of stained bands was measured by scanning the gels with an NIH Image analyzer system (version 1.61). To increase the accuracy of the calculation of protein molecules, the Western blot analysis was repeated at least three times for all samples. Solid circles represent the total number of cells measured with a Coulter Multisizer II, while open circles represent the total number of protein molecules per cell, calculated as averages of three independent measurements.