Diferencias funcionales entre el hipocampo dorsal y ventral reveladas con la tinción AgNOR. Recently differences were reported concerning the dorsal and ventral zones of hippocampal formation. These differences may play an important role regarding the differential involvement of both zones in learning and memory. We use here the silver staining of nucleolar organizer regions (AgNORs) histological technique in order to analyze the biosynthetic activity of CA1 and CA3 hippocampal areas in dorsal and ventral zones from Wistar rats. We quantified the mean number and area of AgNORs in their neurons, which are considered as indirect indexes of protein synthesis activity. The results show a significantly higher biosynthetic activity in the dorsal region from the areas studied, which agrees with previous research. Functional implications derived from our results are discussed in this paper.