

ABSTRACT

The aim of the diploma thesis was to elucidate the role of hDia1 and hDia2 proteins in A375-M2 melanoma cell invasion. Different methods, such as siRNA transfection, western blotting, fluorescence microscopy and confocal microscopy, were used. It was revealed that both proteins really play the role in invasion behavior of A375-M2 tumor cells. Furthermore, the hypothesis arose proposing the mechanism of hDia1 and hDia2 in A375-M2 tumor cell invasion.