Abstract

NK cells, the cells of non-adaptive imune system, are able to recognise viraly infected

or oncogenous cells by many inhibiting and activating receptors that are expressed on their

surface and eliminate them consequently. For NKp30, activating receptor of NK cells

included in NCR (Natural Killer Cell Receptors) family, lately there were identified several

ligands, including membrane protein B7-H6 expressed on oncogenous cells surface and BAG-

6, cell core protein with wide spectrum of functions.

Aim of this thesis was preparation of expression vectors coding for receptor NKp30

and his ligands B7-H6 and BAG-6, enabling expression of these proteins in HEK293 cell line.

Keywords: NK cell, plasmid, receptor, NKp30, B7-H6, BAG-6