

## VI. SUMMARY

M6 molecule is a human leukocyte surface antigen. To study the function of this molecule, two monoclonal antibodies against this protein were generated. These produced monoclonal antibodies were then used for cellular expression and function and functional analysis of the M6 molecule. In conclusion, this study demonstrated that, the M6 molecule expressed on all tested haematopoietic cell line including U-937, Sup-T1, Molt-4, Daudi and K-562 and its increased number on activated lymphocytes. Anti-M6 monoclonal antibodies inhibited cell proliferation of PHA activated lymphocytes and cell lines. M6 molecule, therefore, might function as a signal transducing molecule, or might be a growth factor receptor. The biochemical characterization and mechanism involving cell proliferation of M6 molecule are interesting to clarify further.