



Molecular Biotechnology Programme
Uppsala University School of Engineering

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| Title (English) Selection of CD4-specific Affibody[®] molecules to be used for human T lymphocyte separation | | |
| Title (Swedish) | | |
| Abstract Human CD4 (hCD4)-specific ligands were selected from a phage display library containing $3.3 \cdot 10^9$ variants. The library was previously constructed with the well-characterised protein A-derived three-helix bundle domain Z as a scaffold. Selections were performed using two different strategies: Soluble selection with biotinylated hCD4 and streptavidin beads as well as solid phase selection using tosylactivated beads with immobilised hCD4. After four cycles with successively increasing selection stringency, six binding (Affibody [®]) molecules were observed using biosensor analysis. | | |
| Keywords Affibody [®] , magnetic beads, CD4, cell separation | | |
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