| | Up-regulated signaling in act | | | | | | | | | | | | | | Down-regulated signaling in act | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------------------------|-----------------|-----------|-----------|--------------------------|-------------|-------------|------------|-------------|------------|------------|-------------|-------------|---------|---------------------------------|------------|-------------|----------------|---|----------------------------|--|-----------------|-------------|------------|-----------|--------------|------------|------------|------------|-------------|------------|------------|--------------|-------------|-------------|--------------------------|-------------|------------|-------------|
| VCAM1 – (ITGA4+ITGB7) - | • | • | • | | | | | | • | • | | | | | | | | • | | | VCAM1 – (ITGA4+ITGB7) | _ | | | | • | | | | • | | | | • | | • | | | • |
| VCAM1 – (ITGA4+ITGB1) - | | • | | | • • | | | | | | | • | • | | | | | | | | VCAM1 – (ITGA4+ITGB1) | | • | | • | • | | • | • | • | • | • | • | • | • | • | | | • |
| VCAMT = (HGA4+HGBT) - | | | | | | | | | | | | | | | | | | | | | TIGIT – NECTIN2 SEMA7A – (ITGB1+ITGA1) | | • | | | • | | • | | | | • | | • | | | | | |
| TIGIT – NECTIN2 - | | • | | | • | | • | | | | | | | | | | | | | | SEMA4D – PLXNB2 | | • | | | • | | | | | | | | | | | | | |
| SEMA4D – PLXNB2 - | | • | | • | • | | | | | | | | | | | | | | | | SEMA4A – PLXNB2 | _ | | | | | | • | | | | | | • | | • | | | |
| SEMA4A – PLXNB2 - | | | | | | | | | | | | | | | | | | | | | DLL1 – NOTCH2 | _ | | | | | | | | • | | | | | | | | | |
| SEIWAAA - I EANNEZ | | | | | | | | | | | | | | | | | | | | | DLL1 - NOTCH3 | | | | | | | | | • | | | | | | | | | |
| MPZL1 – MPZL1 - | | | | | | | | | | | | | | | | | | | | | DLL1 – NOTCH1 | | | | | | | | | • | | | | | | | | | |
| ITGB2 – ICAM2 - | | | | | • | | | | | | | | | | | | | | | | NCAM1 – FGFR1 MPZL1 – MPZL1 | | | | | • | | • | | • | | | | | | | | | |
| ITGB2 – ICAM1 - | | • | | | • | | | | | | | | • | | | | | | | | JAM3 – JAM3 | _ | | | | | | | | | | • | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | F11R – JAM3 | | | | | | | | | | | | | • | | • | | | |
| CD99 – CD99 - | | | | | • | | • | | | | | | | | | | | | | | ITGB2 – ICAM2 | _ | | | | | | | | | | | | | | • | | | |
| CD46 – JAG1 - | | • | • | • | • | • | • | | • | | • | | • | | • | | | | | | ITGB2 – ICAM1 | _ | • | | | • | | • | | | | | | • | | • | | | |
| CD40LG – CD40 - | • | | | | | | | | | | | | | | | | | | | | CD99 – CD99 CD40LG – CD40 | | | | | • | | • | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | CD226 – NECTIN2 | | • | | | • | | | | • | | | | | | • | | | |
| CD226 – NECTIN2 - | | • | - | • | • | | | | • | | | | | | | | | | | | CADM1 – CADM1 | | | | | | | | | | | | | | | • | | | • |
| CADM1 – CADM1 - | | | | | | | | | | | | | | | | | | • | | | LAMC1 – DAG1 | | | | | | | | | | | | | | | | | | • |
| LAMC1 – DAG1 - | | | | | | | | | | | | | | | | | | • | | | THBS1 - CD36 | | | | | | | | | | | | • | • | | | | | |
| | | | | | | | | | | | | | | | | | | | | | COL9A3 – CD44 | | | | | | | • | | | | • | | | | | | | |
| THBS1 - CD36 - | | | | | | | | | | | | • | • | | | | | | | | COL9A2 – CD44 COL4A4 – CD44 | _ | | | | | | | | • | • | | | • | | • | | | |
| COL4A4 – CD44 - | | | | | | | | | | • | | | | | | | | | , | Commun. Prob. | COL4A3 – CD44 | | | | | | | | | | • | | | | | | | | • |
| LAMC1 – (ITGA7+ITGB1) - | | | | | | | | | | | | | | | | | | | | | LAMC1 – (ITGA7+ITGB1) | _ | | | | | | | | | | | | | | | | • | |
| | | | | | | | | | | | | | | | | | | | | min | COL9A3 – (ITGA1+ITGB1) | _ | | | | | | • | | | | • | | | | | | | • |
| COL4A4 – (ITGA1+ITGB1) - | | | | | | | | | | • | | | | | | | | | | p-value • 0.01 < p < 0.05 | COL9A2 – (ITGA1+ITGB1) | | | | | | | | | • | | | | • | (| • | | | |
| LGALS9 – CD44 - | | | | | | • | • | | | • | | • | • | | • | | | | | p < 0.01 | COL4A4 – (ITGA1+ITGB1) COL4A3 – (ITGA1+ITGB1) | | | | | | | | | | • | | | | | | | • | |
| BTLA – TNFRSF14 - | | | | | | | | | | | • | | | | | • | | | | | LGALS9 – CD44 | | | | | | | • | | | | | • | • | | • • | • | | |
| | | | | | | | | | | | | | | | | | | | | | GRN – SORT1 | | | | | | | • | | | | • | | • | | • | • | | • |
| GAS6 – AXL - | | | | | | | | | | | | | • | | | | | • | | | GAS6 – MERTK | _ | | | | | | | | | | | | • | | • | | | • |
| MDK – SDC2 - | | | | | | | | | | | | | | | | | | • | | | GAS6 – AXL | _ | | | | | | | | | | | | • | (| • | | | • |
| NAMPT – INSR - | | | | | | | | | | | | | • | | | | | | | | GZMA – PARD3 | _ | | | • | • | | | | | | | | | | | | | |
| RETN – CAP1 - | | | | | | | | | | | | • | | | | | | | | | NAMPT – INSR TNFSF12 – TNFRSF12A | _ | • | | | • | | | | • | | • | | • | | | • | | |
| REIN - CAPI - | | | | | | | | | | | | | | | | | | | | | FASL – FAS | _ | | | | • | | • | | | | | | | | | | | |
| TNFSF12 – TNFRSF12A - | | • | | • | • | | | | • | | • | | • | | | • | | | | | TNFSF14 – TNFRSF14 | | | | | • | | • | | • | | | | | | | | | |
| LTA – TNFRSF14 - | | | | | | | • | | | | | | | | | | | | | | TNFSF14 – LTBR | | | | | • | | • | | • | | | | | | | | | |
| LTA – TNFRSF1B - | | | | | | | • | | | | | | | | | | | | | | TNF - TNFRSF1B | | | | | | | • | | | | • | | | | | | | |
| TWI NOT ID - | | | | | | | | | | | | | | | | | | | | | TNF – TNFRSF1A IGF1 – IGF1R | | | | | | • | • | | | | • | | | | • | | | • |
| LTA – TNFRSF1A - | | | | | | • | • | | | | | | | | | | | | | | PDGFD – PDGFRB | | | | | • | | • | | | | | | | | | | | |
| TNF – TNFRSF1B - | | | | | | | • | | | | • | | | | | | | | | | AREG – EGFR | | | | | | | • | | • | | • | | | | | • | | • |
| TNF – TNFRSF1A - | | | | | | • | • | | | | • | | | | | | | | | | WNT5B – FZD7 | | | | | | | | | | | | | | | • | | | |
| | | | | | | | | | | | | | | | | | | | | | WNT5A – MCAM | | | | | | | | | | | | | • | | | | | |
| IFNG – (IFNGR1+IFNGR2) - | | | | | • | | | | | | | | | | | | | | | | WNT5A - FZD7 | | | | | | | | | | | | | • | | | | | |
| OSM - (OSMR+IL6ST) - | | | | | | | | | | | | • | | | | | | | | | WNT10A – (FZD7+LRP6) WNT10A – (FZD4+LRP6) | | | | | | | | | | | | | | | | | | • |
| OSM – (LIFR+IL6ST) - | | | | | | | | | | | | • | | | | | | | | | BMP6 – (BMPR1A+BMPR2) | | | | | | | | | | | | | | | | | | • |
| | | | | | | | | | | | | | | | | | | | | | GDF7 – (BMPR1A+BMPR2) | | | | | | | | | | | • | | | | | | | |
| PDGFD – PDGFRB - | | | | | • | | • | | | | | | | | | | | | | | TGFB1 – (ACVR1B+TGFBR2) | _ | • | | | • | | • | | • | | • | | • | | | • | | • |
| · | PRC (act) | PRC (res) | PRC (act) | PRC (res) | PRC (act) | PRC (act) - | PRC (res) - | PRC (act) | PRC (res) - | PRC (act) | PRC (res) | PRC (act) | PRC (res) - |) (act) | PRC (act) - | PRC (res) | - (+06) 080 | PRC (res) - | | | | PRC (act) | PRC (res) - | PRC (act) | PRC (act) | PRC (res) - | PRC (act) | PRC (res) | PRC (act) | PRC (res) - | PRC (act) | PRC (res) | -PRC (act) - | PRC (res) - | PRC (act) | PRC (res) | PRC (res) - | PRC (act) | PRC (res) - |
| | CD4T -> ACTA2+I | CD4T -> ACTA2+F | ^ | ^ | -> ACTA2+I -> ACTA2+F | ^ | -> ACTA2+F | -> ACTA2+I | -> ACTA2+F | -> ACTA2+I | -> ACTA2+F | -> ACTA2+I | -> ACTA2+F | | -> ACTA2+I | -> ACTA2+F | | , [\] | | | | CD4T -> ACTA2+I | ^ | -> ACIAZ+I | \ ^ | \ | -> ACTA2+I | -> ACTA2+F | -> ACTA2+I | -> ACTA2+F | -> ACTA2+I | -> ACTA2+F | -> ACTA2+I | -> ACTA2+F | -> ACTA2+I | -> ACTA2+F -> ACTA2+I | , | -> ACTA2+I | -> ACTA2+F |
| | CD4T - | CD4T - | CD8Tcm -> | CD8Tcm - | CTL/NKcell - | GCB -> | GCB - | ILC3 -> | ILC3 – | MBC -> | MBC - | Mph/DC-1 -> | Mph/DC-1 -> | | naiveB - | | | plasmaCell – | | | | CD4T - | CD4T - | CD81cm - | | CTL/NKcell - | GCB -> | GCB - | ILC3 -> | ILC3 -> | MBC> | MBC - | Mph/DC-1 -> | Mph/DC-1 -> | Mph/DC-2 -> | Mph/DC-2 naiveB | | asn | asmaCell – |
| | | | | | CI | | | | | | | Σ | Σ | 2 2 | | | 2 | <u> </u> | • | | | | · | | C | CT | | | | | | | Σ | Ž | Σ | Σ | | pla | pl |

Commun. Prob.

p-value

0.01 p < 0.01