Up-regulated Pathways

| Pathway | Leading Edge Genes |
|---|---|
| NABA CORE MATRISOME | *Abi3bp, Spon2, Npnt, Matn2, Postn, Ddx26b, Nid1, Fmod, Pcolce, Igfbp4, Creld2, Aebp1, Igfbp6, Sparc, Lamc1, Gas6, Col1a1, Col5a2, Mfge8, Fbn1, Bgn, Efemp1, Col18a1, Mfap5, Col3a1, Emilin1, Igfbp7, Edil3, Eln, Col4a1, Cyr61, Col1a2, Col6a2, Fbln5, Fbln2, Col6a1, Col5a1, Ogn, Vwa9, Lrg1, Col4a2, Ctgf, Tinagl1, Igfbp3, Vwf, Prelp, Ltbp4, Fn1, Pxdn, Smoc2, Mmrn2, Spock2* |
| KEGG ECM RECEPTOR INTERACTION | *Itgb1, Itgb4, Cd47, Sdc1, Lamc1, Col1a1, Col5a2, Cd36, Itga5, Itga4, Col3a1, Cd44, Col4a1, Col1a2, Col6a2, Itga3, Itgb3, Col6a1, Col5a1, Col4a2, Itgb5* |
| REACTOME SEMAPHORIN INTERACTIONS | *Nrp1, Itgb1, Erbb2, Cdc42, Crmp1, Rac1, Sema6a, Myl12b, Sema4d, Dpysl3, Hsp90ab1* |
| PID A6B1 A6B4 INTEGRIN PATHWAY | *Itgb1, Erbb2, Itgb4, Ywhah, Rac1, Cd9, Lamc1, Ywhae, Pmp22* |
| REACTOME EXTRACELLULAR MATRIX ORGANIZATION | *Mmp25, Timp2, Pcolce, Serpinh1, Col1a1, Col5a2, Furin, Col3a1, Mmp17, Col4a1, Plod1, Ppib, P4hb, Col1a2, Col6a2, Col6a1, Col5a1, Col4a2* |

Down-regulated Pathways

| Pathway | Leading Edge Genes |
|---|---|
| PID IL12 2PATHWAY | *Atf2, Cd3g, Il2, Ccl4, Il18r1, Jak2, Il12rb1, Nfkb2, Il18rap, Ccr5, Ifng, Socs1, Il2rb, Relb, Il2ra, Tbx21, Stat1, Gadd45g, Il12rb2, Gadd45b* |
| REACTOME GROWTH HORMONE RECEPTOR SIGNALING | *Mapk3, Stat5a, Irs2, Jak2, Socs1, Cish, Sh2b1, Socs2, Stat1, Socs3* |
| REACTOME INTERFERON GAMMA SIGNALING | *Camk2d, Irf1, Oas3, Jak2, Ifng, Gbp4, Socs1, Icam1, Gbp2, Ifngr1, Gbp6, Irf8, Stat1, Ifngr2, Socs3* |
| REACTOME SRP DEPENDENT COTRANSLATIONAL PROTEIN TARGETING TO MEMBRANE | *Rps27a, Rps12, Rpl3, Srprb, Rpl17, Rpl23, Rpl29, Rpl26, Rpl27a, Rpl39, Rps14, Rpsa, Rpl13a, Rps9, Rpl27, Rps15a, Rplp2, Rpl41, Rpl35a, Rpl18, Rps23, Uba52, Rpl23a, Rpl18a, Rps28, Rpl36a, Fau, Rpl34, Rps16, Rps6, Rps21, Rpl13, Rps15, Rpl37, Rps7, Rps10, Rps5, Rps29, Rpl14, Rpl8, Rps24, Rps20, Rplp1, Rpl32, Rpl31, Rpl21, Rpl38, Rpl35, Rps27, Rpl37a, Rps18, Rpl36, Rps19, Rpl12, Rps25* |
| KEGG CYTOKINE CYTOKINE RECEPTOR INTERACTION | *Cxcl2, Il18r1, Tgfbr2, Il12rb1, Ccr8, Il18rap, Egfr, Ccr5, Ifng, Xcl1, Bmp7, Tnfrsf1b, Acvr2a, Il2rb, Tnfrsf1a, Vegfa, Il21r, Il10rb, Cxcl10, Tnf, Cxcr3, Ifnar2, Il2ra, Ifngr1, Il12rb2, Tnfsf11, Ifngr2, Tnfrsf18, Lif* |

**Supplementary Table 1.** GSEA gene lists of sorted adipose tissue γδ T cells from 1 week KD vs Chow.

Leading edge genes for each pathway identified by Gene Set Enrichment Analysis. Up- and down- regulation indicates the direction of expression induced by KD as compared to Chow.

| | % of calories | | | g/100 g diet | | |
|---|---|---|---|---|---|---|
| | Carbohydrate | Protein | Fat | Carbohydrate | Protein | Fat |
| Control chow (3.1 kcal/g) | 58 | 24 | 18 | 44.2 | 18.6 | 6.2 |
| Ketogenic diet (6.76 kcal/g) | 0.1 | 10.4 | 89.5 | 0.9 | 17.6 | 67.2 |

**Supplementary Table 2.** Diet compositions

Table containing the macronutrient composition of chow and KD diets based on percent of calories coming from each nutrient and percent of each nutrient by weight.