Energy metabolism Androgen receptor regulation of biosynthesis and transcription TNF-alpha signaling pathway AMPK signaling Prolactin regulation of apoptosis FoxO family signaling PTEN-dependent cell cycle arrest and apoptosis NFAT involvement in hypertrophy of the heart TNFR2 signaling pathway Calcineurin-dependent NFAT signaling role in lymphocytes GAB1 signalosome Insulin signaling pathway PIK3C1/AKT pathway PI3K/PLC/TRK pathway Apoptosis Interleukin-5 regulation of apoptosis Cluster Fas signaling pathway Activation of BH3-only proteins GM-CSF-mediated signaling events Interleukin-2/PI3K pathway Apoptosis intrinsic pathway ERBB1 downstream pathway Neurotrophin signaling pathway Osteoclast signaling Interleukin-2/STAT5 pathway Prolactin activation of MAPK signaling ATR activation in response to replication stress T cell receptor signaling pathway Lipid and lipoprotein metabolism Natural killer cell-mediated cytotoxicity Regulation of NFAT transcription factors Lysosome

CD16 Mono CD4 TCM

CD8 TEM

Immune system signaling by interferons, interleukins, prolactin, and growth hormones Interferon—beta enhancer pathway

Type II interferon signaling (interferon—gamma)

Interferon gamma signaling regulation