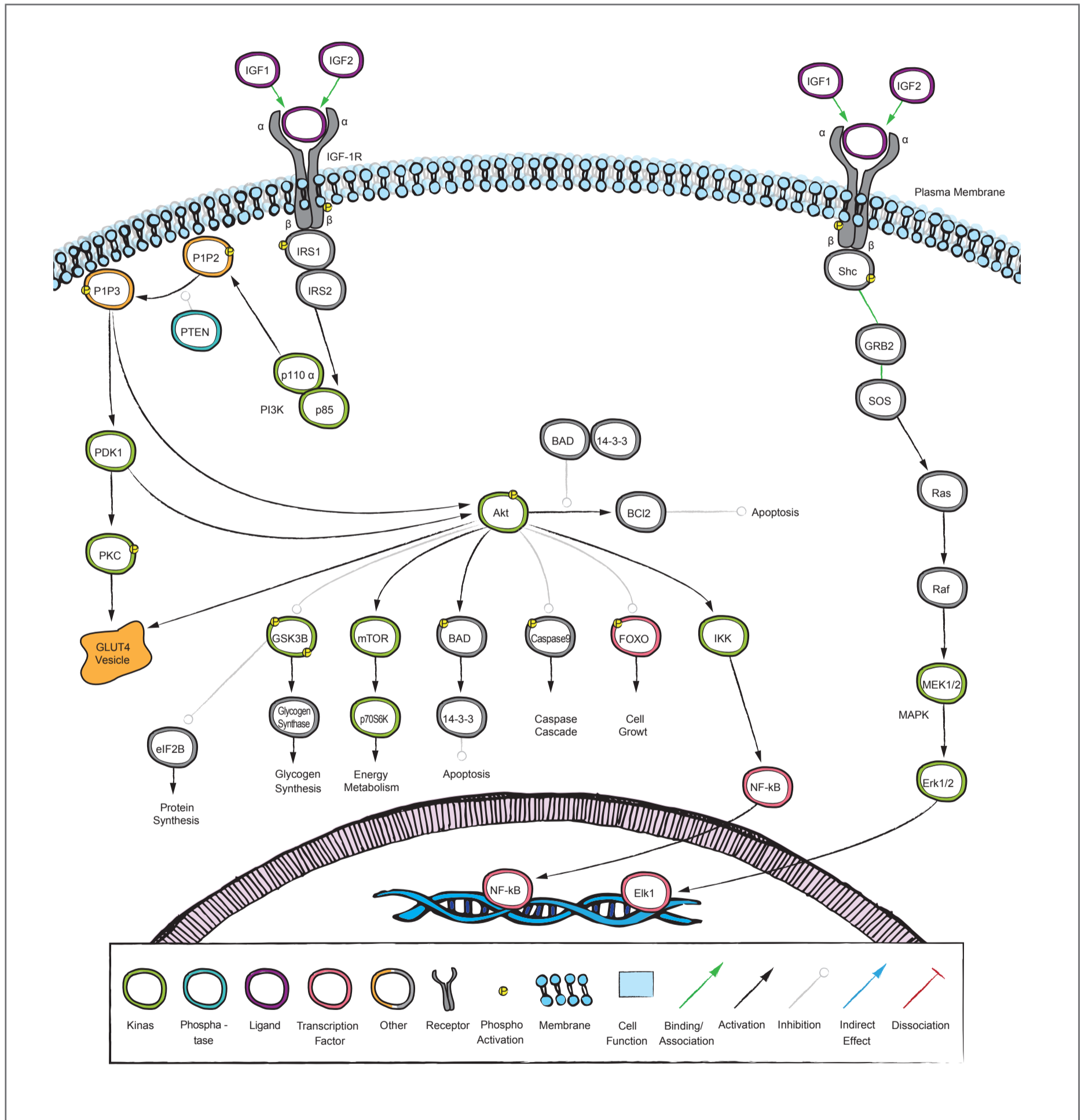


Featured Pathways & Targets

IGF1R Signaling



The IGF1R Signaling Pathway is induced by the binding of IGF1 or IGF2 to the IGF1R receptor. Once IGF1R is activated it recruits and activates signaling adaptor proteins. The recruitment and activation of these signaling adaptor proteins, which include IRS1, IRS2, and Shc, has downstream anti-apoptotic by inhibiting the phosphorylation of pro-apoptotic proteins. IGF1R signaling also has downstream effects on glucose metabolism through GSK-3 β regulation. The IGF1R signaling pathway is an attractive target for cancer therapies because it has been found that expression of IGF1R is required for neoplastic transformation by a number of oncogenes.