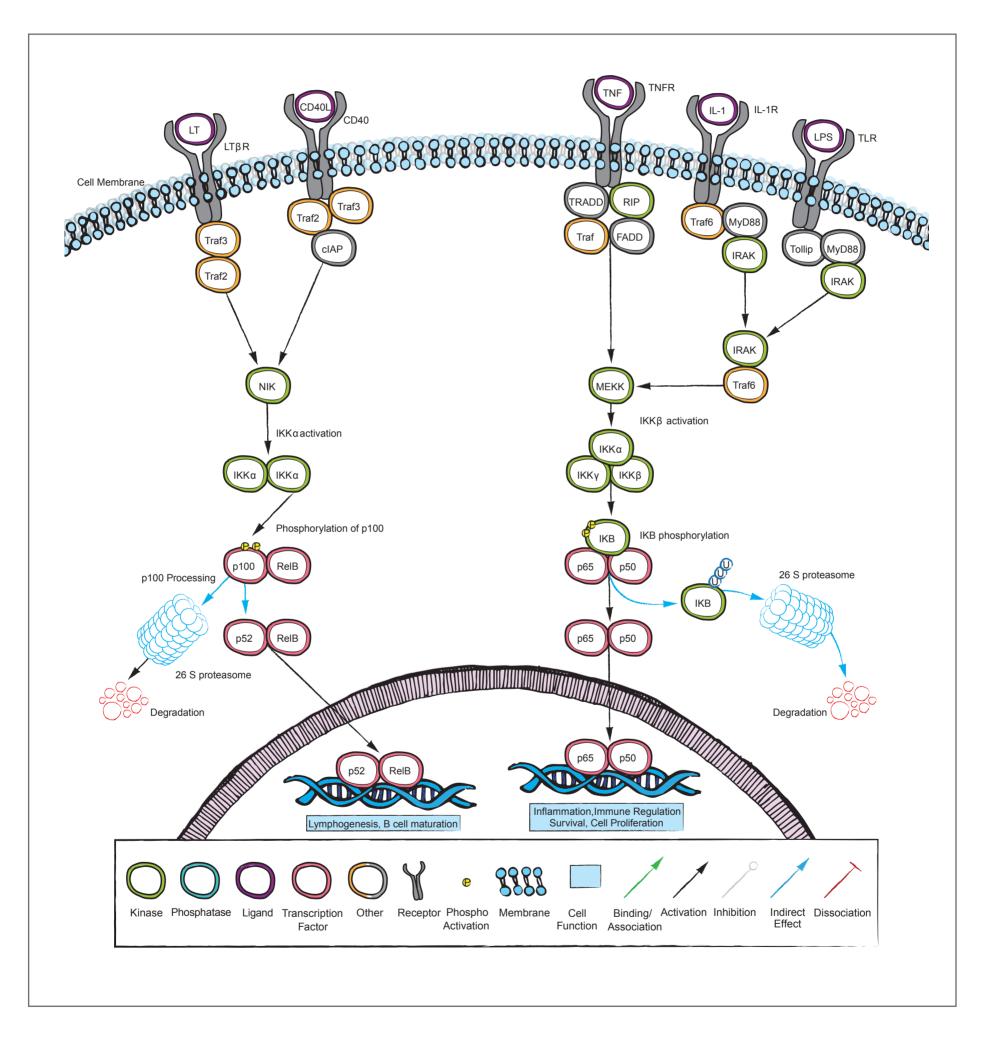
Featured Pathways & Targets







The transcription factor nuclear factor NF- κ B plays a pivotal role in the regulation of innate and adaptive immunity, stress responses, inflammation, and the inhibition of apoptosis. Under resting conditions, NF- κ B dimers are bound to inhibitory I κ B proteins, which inactive NF- κ B complexes in the cytoplasm. Stimulus-induced degradation of I κ B proteins is instigated through phosphorylation by the I κ B kinase (IKK) complex, which is kinases, IKK α , IKK β , IKK γ (NEMO). Phosphorylated I κ B proteins are targeted for ubiquitination and proteasomal degradation, which releases the bound NF- κ B dimers so they can translocate to the nucleus.