APOPTOSIS Cleavage of Caspase Substrate Extrinsic Pathway Death Ligand Adaptor K04389 K02373 K04722 Type 1 K04721 K04400 K02187 Degradation DNA Fragmentation K03171 K02311 Apoptosis K02373 K04398 K04397 K03158 K03156 K03171 Type 2 K03173 K04726 tBid↓ K03171 Mitochondrion K02373 K04383... K04386... K04729 K04724 Mitochondrion Cytokine-cytokine receptor interaction K04399 Stress Signals Intrinsic Pathway K04466 NF-κ B signaling pathway Death Genes DNA O K04734 Degradation DNA Survival Factors Survival PI3K-Akt signaling pathway +p p53 signaling pathway Survival K02582 Genes K04736 +p cAMP Homodimer K04737... Ca<sup>2+</sup>-induced Cell Death Pathways DNA Damage Apoptosis [Ca<sup>2+</sup>]<sub>i</sub> Rises ER Stres --Cell cycle K04741

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