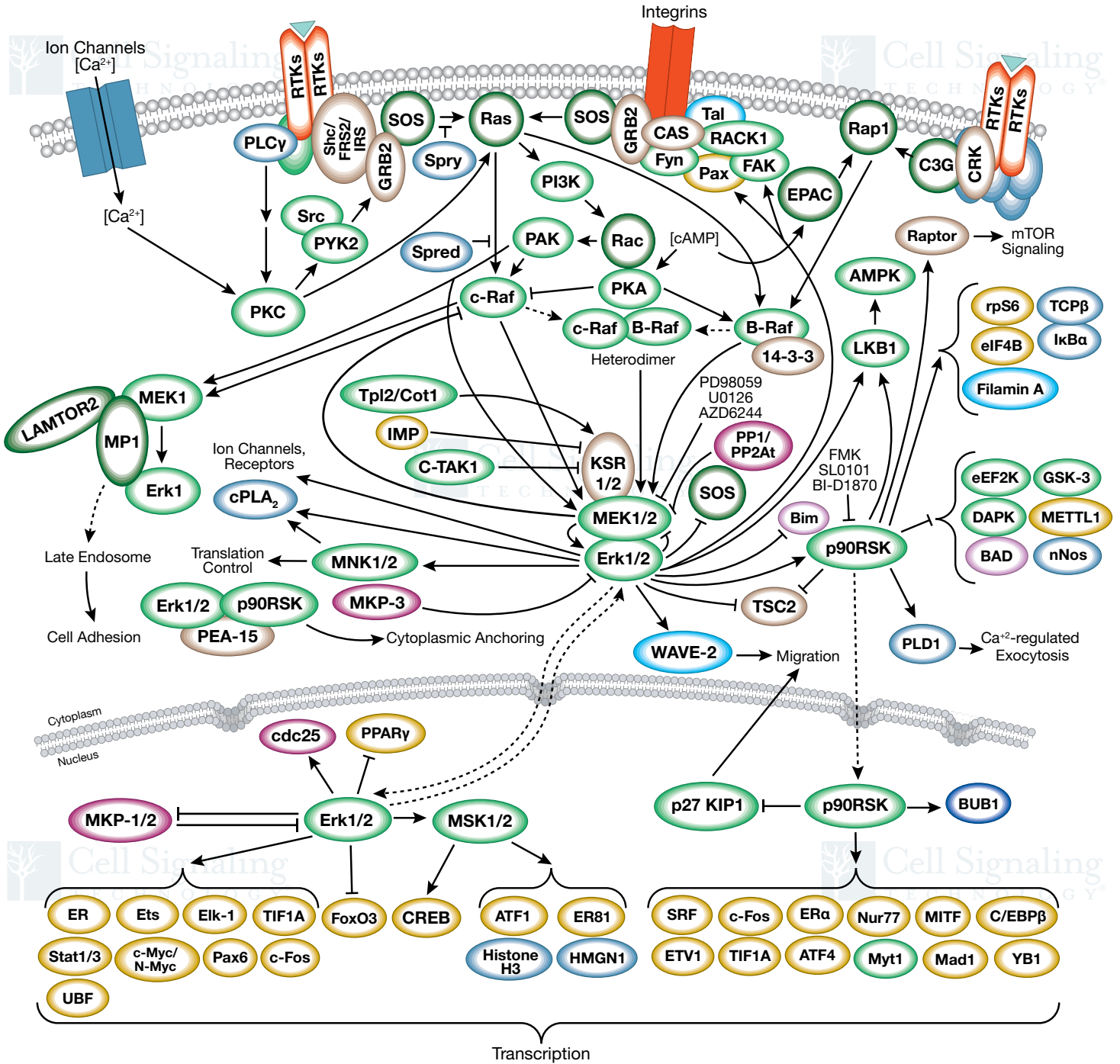




# MAPK/Erk in Growth and Differentiation



## Pathway Diagram Key

Acetylase	Apoptosis/ Autophagy Regulator	Deacetylase or Cytoskeletal Protein	GTPase/GAP/GEF	Metabolic Enzyme	Phosphatase	Ubiquitin/SUMO Ligase or Deubiquitinase	Receptor
Adaptor	Cell Cycle Regulator	Growth Factor/Cytokine/ Development Protein	Kinase	Methyltransferase or G-protein	Protein Complex	Transcription Factor or Translation Factor	Other
Direct Process	Tentative Process	Translocation Process	Stimulatory Modification	Inhibitory Modification	Transcriptional Modification		