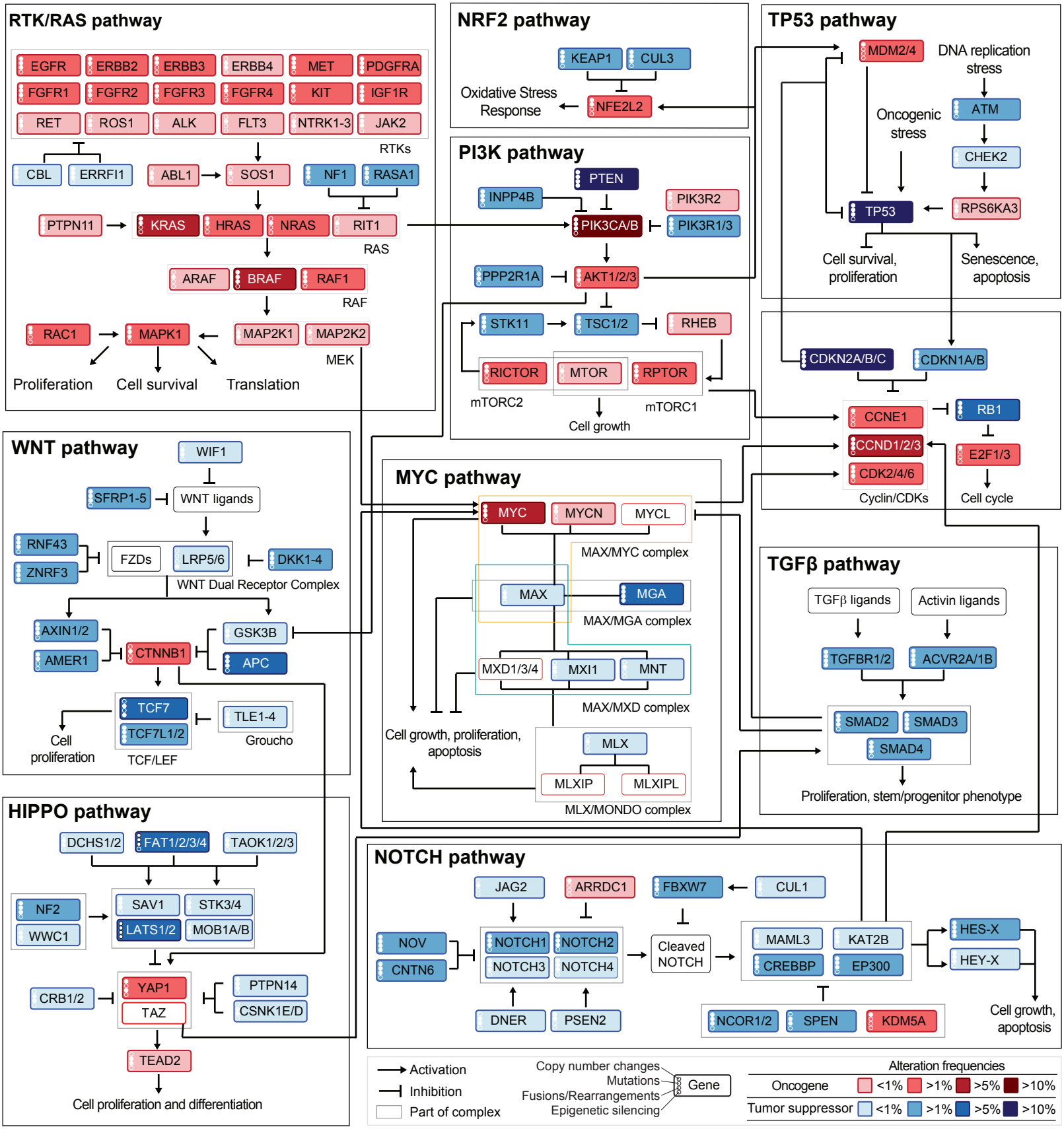
RTK/RAS pathway
EGFR
ERBB2
ERBB3
ERBB4
MET
PDGFRA
FGFR1
FGFR2
FGFR3
FGFR4
KIT
IGF1R
RET
ROS1
ALK
FLT3
NTRK1-3
JAK2
RTKs
CBL
ERRFI1
ABL1
SOS1
NF1
RASA1
PTPN11
KRAS
HRAS
NRAS
RIT1
RAS
ARAF
BRAF
RAF1
RAF
RAC1
MAPK1
MAP2K1
MAP2K2
MEK
Proliferation
Cell survival
Translation
NRF2 pathway
KEAP1
CUL3
Oxidative Stress Response
NFE2L2
PI3K pathway
PTEN
INPP4B
PIK3R2
PIK3CA/B
PIK3R1/3
PPP2R1A
AKT1/2/3
STK11
TSC1/2
RHEB
RICTOR
MTOR
RPTOR
mTORC2
mTORC1
Cell growth
TP53 pathway
MDM2/4
DNA replication stress
ATM
Oncogenic stress
CHEK2
TP53
RPS6KA3
Cell survival, proliferation
Senescence, apoptosis
CDKN2A/B/C
CDKN1A/B
CCNE1
RB1
CCND1/2/3
E2F1/3
CDK2/4/6
Cyclin/CDKs
Cell cycle
WNT pathway
WIF1
SFRP1-5
WNT ligands
RNF43
ZNRF3
FZDs
LRP5/6
DKK1-4
WNT Dual Receptor Complex
AXIN1/2
AMER1
CTNNB1
GSK3B
APC
TCF7
TCF7L1/2
TLE1-4
Cell proliferation
TCF/LEF
Groucho
MYC pathway
MYC
MYCN
MYCL
MAX/MYC complex
MAX
MGA
MAX/MGA complex
MXD1/3/4
MXI1
MNT
MAX/MXD complex
Cell growth, proliferation, apoptosis
MLX
MLXIP
MLXIPL
MLX/MONDO complex
TGFβ pathway
TGFβ ligands
Activin ligands
TGFBR1/2
ACVR2A/1B
SMAD2
SMAD3
SMAD4
Proliferation, stem/progenitor phenotype
HIPPO pathway
DCHS1/2
FAT1/2/3/4
TAOK1/2/3
NF2
WWC1
SAV1
STK3/4
LATS1/2
MOB1A/B
CRB1/2
YAP1
TAZ
PTPN14
CSNK1E/D
TEAD2
Cell proliferation and differentiation
NOTCH pathway
JAG2
ARRDC1
FBXW7
CUL1
NOV
CNTN6
NOTCH1
NOTCH2
NOTCH3
NOTCH4
Cleaved NOTCH
MAML3
KAT2B
CREBBP
EP300
HES-X
HEY-X
DNER
PSEN2
NCOR1/2
SPEN
KDM5A
Cell growth, apoptosis
Activation
Inhibition
Part of complex
Copy number changes
Mutations
Fusions/Rearrangements
Epigenetic silencing
Gene
Alteration frequencies
Oncogene
<1%
>1%
>5%
>10%
Tumor suppressor
<1%
>1%
>5%
>10%

Figure S1