

# Theralink® Assay Version 1.0

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## Receptor Tyrosine Kinases

ALK Tyrosine 1605  
c-Met Tyrosine 1234/1235  
EGFR Threonine 654  
EGFR Tyrosine 1068  
FGFR Tyrosine 653/654  
FLK1 (VEGFR2) Tyrosine 951  
HER2  
HER2 Tyrosine 1248  
HER3 Tyrosine 1289  
PDGFR  $\beta$  Tyrosine 751  
Ret Tyrosine 905  
Ros1 Tyrosine 2274

## Chemotherapy Indicators

ERCC1  
MGMT  
RRMI  
TOPO1  
TUBB3

## DNA Damage Response

ATM Serine 1981  
ATR Serine 428  
 $\gamma$ H2AX Serine 139

## Hormone Receptors

Androgen Receptor (AR)  
Androgen Receptor splice variant 7 (AR-V7)

## Immune Checkpoint

PD1  
PDL1

## Proliferation Marker

Ki-67

## Cellular Tyrosine Kinase

Src Tyrosine 416

## Signal Transduction Pathways

### AKT-mTOR Signaling Pathway

AKT Threonine 308  
AKT Serine 473  
mTORC1 Serine 2448  
4E-BP1 Serine 65  
Ribosomal Protein S6 Serine 235/236

### CDK Signaling Pathway

FoxM1 Threonine 600  
Rb Serine 780

### Integrin Signaling Pathway

Paxillin Tyrosine 118

### JAK/STAT Signaling Pathway

JAK2 Tyrosine 1007/1008  
STAT3 Tyrosine 705

### MAPK Signaling Pathway

MEK1/2 Serine 217/221  
ERK1/2 Threonine 202/Tyrosine 204