

Tumor suppressor and DNA damage response panel 2

(55 analytes)

| Gene Symbol | Target protein name | UniProt ID (& link) | Modification* |
|-------------|---|------------------------|---------------|
| ACT | Actin; ACTA2 ACTA1 ACTB ACTG1 ACTC1 ACTG2 | Q562L2 | |
| CASC5 | cancer susceptibility candidate 5 | Q8NG31 | pS767 |
| CASC5 | cancer susceptibility candidate 5 | Q8NG31 | |
| CASP3 | caspase 3, apoptosis-related cysteine peptidase | P42574 | pS26 |
| CDC25B | cell division cycle 25 homolog B (S. pombe) | P30305 | pS16 |
| CDC25B | cell division cycle 25 homolog B (S. pombe) | P30305 | pS323 |
| CDC25B | cell division cycle 25 homolog B (S. pombe) | P30305 | |
| CDC25C | cell division cycle 25 homolog B (S. pombe) | P30307 | pS216 |
| CDC25C | cell division cycle 25 homolog B (S. pombe) | P30307 | |
| CDC25C | cell division cycle 25 homolog B (S. pombe) | P30307 | |
| CDC48 | cell division cycle associated 8 | Q53HL2 | pT16 |
| CDK1 | cyclin-dependent kinase 1 | P06493 | pT161 |
| CDK1 | cyclin-dependent kinase 1 | P06493 | |
| CDK7 | cyclin-dependent kinase 7 | P50613 | pT17 |
| CHEK1 | CHK1 checkpoint homolog (S. pombe) | O14757 | pS286 |
| CHEK2 | CHK2 checkpoint homolog (S. pombe) | O96017 | pS379 |
| CHEK2 | CHK2 checkpoint homolog (S. pombe) | O96017 | pT387 |
| CHEK2 | CHK2 checkpoint homolog (S. pombe) | O96017 | |
| GAPDH | Glyceraldehyde-3-phosphate dehydrogenase | P04406 | |
| LAT | linker for activation of T cells | O43561 | pS224 |
| LMNB1 | lamin B1 | P20700 | pT2; pS23 |
| LMNB1 | lamin B1 | P20700 | pT2 |
| LMNB1 | lamin B1 | P20700 | pS23 |
| MCM6 | minichromosome maintenance complex component 6 | Q14566 | pS762 |
| MCM6 | minichromosome maintenance complex component 6 | Q14566 | |
| MDM2 | Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse) | Q00987 | pS166 |
| MDM2 | Mdm2, transformed 3T3 cell double minute 2, p53 binding protein (mouse) | Q00987 | |
| MKI67 | antigen identified by monoclonal antibody Ki-67 | P46013 | pT181 |
| MKI67 | antigen identified by monoclonal antibody Ki-67 | P46013 | |
| MKI67 | antigen identified by monoclonal antibody Ki-67 | P46013 | pT246 |
| MRE11A | MRE11 meiotic recombination 11 homolog A (S. cerevisiae) | P49959 | pS676 |
| MRE11A | MRE11 meiotic recombination 11 homolog A (S. cerevisiae) | P49959 | |
| NCAPH2 | non-SMC condensin II complex, subunit H2 | Q61BW4 | pS492 |
| NUMA1 | nuclear mitotic apparatus protein 1 | Q14980 | pS395 |
| PAK4 | p21(CDKN1A)-activated kinase 4 | Q96013 | pS181 |
| PAK4 | p21(CDKN1A)-activated kinase 4 | Q96013 | |
| PARP1 | poly (ADP-ribose) polymerase family, member 1 | P09874 | pS41 |
| POLQ | DNA polymerase theta | Q75417 | |
| RAD50 | DNA repair protein RAD50 | Q92878 | pS470 |
| RAD9A | Cell cycle checkpoint control protein RAD9A | Q99638 | pS387 |
| RAD9A | Cell cycle checkpoint control protein RAD9A | Q99638 | |
| RTF1 | Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae) | Q92541 | pS655 |
| RTF1 | Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae) | Q92541 | |
| SAAL1 | serum amyloid A-like 1 | Q96ER3 | pS237 |
| SAAL1 | serum amyloid A-like 1 | Q96ER3 | |
| TNFRSF17 | tumor necrosis factor receptor superfamily, member 17 | Q02223 | pS173 |
| TNFRSF17 | tumor necrosis factor receptor superfamily, member 17 | Q02223 | |
| TP53 | Cellular tumor antigen p53 | P04637 | pS315 |
| TP53 | Cellular tumor antigen p53 | P04637 | pS15 |
| TP53BP1 | tumor protein p53 binding protein 1 | Q12888 | pT543; pS552 |
| TP53BP1 | tumor protein p53 binding protein 1 | Q12888 | pT543 |
| TP53BP1 | tumor protein p53 binding protein 1 | Q12888 | pS552 |
| TP53BP1 | tumor protein p53 binding protein 1 | Q12888 | |
| TUBB | Tubulin beta chain | P07437 | |
| UTP14A | UTP14, U3 small nucleolar ribonucleoprotein, homolog A (yeast) | Q9BVJ6 | pS453 |
| UTP14A | UTP14, U3 small nucleolar ribonucleoprotein, homolog A (yeast) | Q9BVJ6 | |

*blanks mean the assay detects the non-modified peptide sequence