

Tumor suppressor and DNA damage response panel 1

(68 analytes)

Gene Symbol	Target protein name	UniProt ID (& link)	Modification*
ATM	Serine-protein kinase ATM, Ataxia telangiectasia mutated	Q13315	pS2996
ATM	Serine-protein kinase ATM, Ataxia telangiectasia mutated	Q13315	
ATM	Serine-protein kinase ATM, Ataxia telangiectasia mutated	Q13315	pS367
ATM	Serine-protein kinase ATM, Ataxia telangiectasia mutated	Q13315	
ATR	Serine/threonine-protein kinase ATR	Q13535	pT1989
ATR	Serine/threonine-protein kinase ATR	Q13535	
ATRIP	ATR interacting protein	Q8WXE1	pS224
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BRCA1	Breast cancer type 1 susceptibility protein	P38398	pS1524
BRCA1	Breast cancer type 1 susceptibility protein	P38398	
BRCA2	Breast cancer type 2 susceptibility protein	P51587	pS1680
BRCA2	Breast cancer type 2 susceptibility protein	P51587	
BRIP1 / FANCI	BRCA1 interacting protein C-terminal helicase 2	Q9BX63	pS1032
BRIP1 / FANCI	BRCA1 interacting protein C-terminal helicase 2	Q9BX63	
BRIP1 / FANCI	BRCA1 interacting protein C-terminal helicase 2	Q9BX63	pT918
BRIP1 / FANCI	BRCA1 interacting protein C-terminal helicase 2	Q9BX63	
C17orf70 / FAAP100	Chromosome 17 open reading frame 70 / Fanconi anemia-associated protein of 100 kDa	Q0VG06	pS667
C17orf70 / FAAP100	Chromosome 17 open reading frame 70 / Fanconi anemia-associated protein of 100 kDa	Q0VG06	
CHEK1	Serine/threonine-protein kinase Chk1, CHK1 checkpoint homolog (S. pombe)	Q14757	pS317
CHEK1	Serine/threonine-protein kinase Chk1, CHK1 checkpoint homolog (S. pombe)	Q14757	
CLU	Clusterin	P10909	
FANCA	Fanconi anemia group A protein	Q15360	
FANCD2	Fanconi anemia, complementation group D2	Q9BXW9	uK561
FANCD2	Fanconi anemia, complementation group D2	Q9BXW9	
FANCD2	Fanconi anemia, complementation group D2	Q9BXW9	
FANCI	Fanconi anemia group I protein	Q9NVI1	pS730
FEN1	Flap structure-specific endonuclease 1	P39748	
GSTP1	Glutathione S-transferase pi	P09211	
H2AX	H2A Histone Family, Member X	P16104	pS139
JUN	Jun oncogene	P05412	pS63
JUN	Jun oncogene	P05412	
MDC1	Mediator of DNA-damage checkpoint 1	Q14676	pS329
MDC1	Mediator of DNA-damage checkpoint 1	Q14676	
NBN	Nibrin	Q60934	pS432
NBN	Nibrin	Q60934	
NBN	Nibrin	Q60934	pS343
NBN	Nibrin	Q60934	
PALB2	Partner and localizer of BRCA2	Q86YC2	pS376
PARP1	Poly [ADP-ribose] polymerase 1	P09874	pS177
PARP1	Poly [ADP-ribose] polymerase 1	P09874	
PCNA	Proliferating cell nuclear antigen	P12004	
PCNA	Proliferating cell nuclear antigen	P12004	uK164
PCNA	Proliferating cell nuclear antigen	P12004	
RAD18	E3 ubiquitin-protein ligase RAD18, RAD18 homolog (S. cerevisiae)	Q9NS91	pS471
RAD18	E3 ubiquitin-protein ligase RAD18, RAD18 homolog (S. cerevisiae)	Q9NS91	pS99
RAD18	E3 ubiquitin-protein ligase RAD18, RAD18 homolog (S. cerevisiae)	Q9NS91	
RAD23B	RAD23 homolog B (S. cerevisiae)	P54727	
RAD23B	RAD23 homolog B (S. cerevisiae)	P54727	
RAD50	DNA repair protein RAD50	Q92878	pS635
RAD50	DNA repair protein RAD50	Q92878	
RAD51C	DNA repair protein RAD51 homolog 3	Q43502	
RB1	Retinoblastoma-associated protein	P06400	pS807
RB1	Retinoblastoma-associated protein	P06400	
REV3L	DNA polymerase zeta catalytic subunit	Q60673	pS1724
REV3L	DNA polymerase zeta catalytic subunit	Q60673	
RIF1	Telomere-associated protein RIF1	Q5UIP0	
RRM2	Ribonucleotide reductase M2 polypeptide	P31350	
RRM2	Ribonucleotide reductase M2 polypeptide	P31350	
TERF2	Telomeric repeat-binding factor 2	Q15554	pS323
TERF2	Telomeric repeat-binding factor 2	Q15554	
TOPBP1	DNA topoisomerase 2-binding protein 1	Q92547	pT1062
TOPBP1	DNA topoisomerase 2-binding protein 1	Q92547	
TOPBP1	DNA topoisomerase 2-binding protein 1	Q92547	
UBE2C	Ubiquitin-conjugating enzyme E2C	Q00762	
UBE2C	Ubiquitin-conjugating enzyme E2C	Q00762	
UBE2I	Ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast)	P63279	
UBE2T	Ubiquitin-conjugating enzyme E2T	Q9NPD8	pS184
UBE2T	Ubiquitin-conjugating enzyme E2T	Q9NPD8	

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