

Tumor suppressor and DNA damage response panel 3 (Pending Validation)

(64 analytes)

Gene Symbol	Target protein name	UniProt ID (& link)	Modification*
ADA	adenosine deaminase	P00813	
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BAD	BCL2-associated agonist of cell death	Q92934	
BAX	BCL2-associated X protein	Q07812	
BAX	BCL2-associated X protein	Q07812	
BCL10	B-cell CLL/lymphoma 10	Q95999	
BIRC5	baculoviral IAP repeat-containing 5 (survivin)	Q15392	
BIRC5	baculoviral IAP repeat-containing 5 (survivin)	Q15392	
BRCA1	Breast cancer type 1 susceptibility protein	P38398	
BRCA2	breast cancer 2, early onset	P51587	
ERCC1	excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence)	P07992	
ERCC2	excision repair cross-complementing rodent repair deficiency, complementation group 2	P18074	
ERCC3	excision repair cross-complementing rodent repair deficiency, complementation group 3 (xeroderma pigmentosum group B complementing)	P19447	
ERCC4	DNA repair endonuclease XPF	Q92889	
ERCC6	excision repair cross-complementing rodent repair deficiency, complementation group 6	Q03468	
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FAS	Fas (TNF receptor superfamily, member 6)	P25445	
FAS	Fas (TNF receptor superfamily, member 6)	P25445	pY291
FAS	Fas (TNF receptor superfamily, member 6)	P25445	
FOXO1	forkhead box O1	Q12778	
FOXO3	forkhead box O3	Q43524	pS253
FOXO3	forkhead box O3	Q43524	pS253
HUS1	HUS1 checkpoint clamp component	Q60921	
LIG1	ligase I, DNA, ATP-dependent	P18858	
LIG3	LIG3alpha	P49916	
LIG4	DNA ligase 4	P49917	
MCL1	myeloid cell leukemia sequence 1 (BCL2-related)	Q07820	
MGMT	O-6-methylguanine-DNA methyltransferase	P16455	
MLH1	DNA mismatch repair protein Mlh1	P40692	
MRE11A	Double-strand break repair protein MRE11	P49959	
MSH2	mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)	P43246	
MSH3	DNA mismatch repair protein Msh3	P20585	
MSH6	mutS homolog 6 (E. coli)	P52701	
MUTYH	Adenine DNA glycosylase	Q9UIF7	
PALB2	Partner and localizer of BRCA2	Q86YC2	
PARP2	Poly (ADP-ribose) polymerase 2	Q9UGN5	
PAXIP1	PAX interacting (with transcription-activation domain) protein 1	Q6ZW49	
PMS1	PMS1 protein homolog 1	P54277	
PMS2	Mismatch repair endonuclease PMS2	P54278	
POLD1	DNA polymerase delta catalytic subunit	P28340	
PTEN	phosphatase and tensin homolog (mutated in multiple advanced cancers 1)	P60484	
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RAD1	RAD1 checkpoint DNA exonuclease	Q60671	
RAD51	RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae)	Q06609	
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RECQL	ATP-dependent DNA helicase Q1	P46063	
RNASEH2A	ribonuclease H2 subunit A	Q75792	
RNF168	ring finger protein 168	Q8IYW5	
RPA1	replication protein A1	P27694	
SLFN11	schlafen family member 11	Q7Z7L1	
TGFB1	transforming growth factor, beta 1	P01137	
TNF10	Tumor necrosis factor ligand superfamily member 10	P50591	
TOP1	topoisomerase (DNA) I	P11387	
TP53	Cellular tumor antigen p53	P04637	
TP53	Cellular tumor antigen p53	P04637	
TP53BP1	TP53-binding protein 1	Q12888	
XRCC1	X-ray repair complementing defective repair in Chinese hamster cells 1	P18887	
XRCC5	X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining)	P13010	
XRCC6	X-ray repair cross-complementing protein 6	P12956	
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*blanks mean the assay detects the non-modified peptide sequence