

## Product datasheet for TP304952

### XRCC1 (NM\_006297) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human X-ray repair complementing defective repair in Chinese hamster cells 1 (XRCC1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204952 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MPEIRLRHWSCSSQDSTHCAENLLKADTYRKWRAAKAGEKTISVWLQLEKEEQIHSVDIGNDGSAFVEV  
LVGSSAGGAGEQDYEVLLVTSSFMSPSESRSGSNPNRVRMFGPDKLVRAAAEKRWDRVKIVCSQPYSKDS  
PFGLSFVRFHSPDPKDEAEAPSQKVTVTKLGQFRVKEEDESANSLRPGALFFSRINKTSPVTASDPAGPS  
YAAATLQASSAASSASPVSRAIGSTSKPQESPKGKRKLDLNQEEKTPSKPPAQLSPVPKRPKLPAPTR  
TPATAPVPARAQGAVTGKPRGEGTEPRRPRAGPEELGKILQGVVWLSGFQNPFRSELRDKALELGAKYR  
PDWTRDSTHLICAFANTPKYSQVLGLGGRIVRKEWVLDCHRMRRRLPSQRYLMAGPGSSSEDEASHSG  
G  
SGDEAPKLPQKQPQTKTKPTQAAGPSSQKPPTPEETKAASPVLQEDIDIEGVQSEGQDNGAEDSGDTE  
ELRRVAEQKEHRLPPGQEENGEDPYAGSTDENTDSEEHQEPDLPVPELPDFFQGHFFLYGEFPGDERR  
KLIRYVTAFNGELEDYMSDRVQFVITAQEWDPSEFALMDNPSLAFVRPRWIYSCNEKQKLLPHQLYGVV  
PQA

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

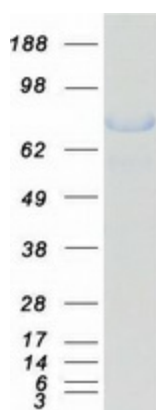
Tag:	C-Myc/DDK
Predicted MW:	69.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_006288</a>
Locus ID:	7515
UniProt ID:	<a href="#">P18887</a>
RefSeq Size:	2102
Cytogenetics:	19q13.31
RefSeq ORF:	1899
Synonyms:	RCC; SCAR26
Summary:	The protein encoded by this gene is involved in the efficient repair of DNA single-strand breaks formed by exposure to ionizing radiation and alkylating agents. This protein interacts with DNA ligase III, polymerase beta and poly (ADP-ribose) polymerase to participate in the base excision repair pathway. It may play a role in DNA processing during meiosis and recombination in germ cells. A rare microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathways:	Base excision repair

### Product images:



Coomassie blue staining of purified XRCC1 protein (Cat# TP304952). The protein was produced from HEK293T cells transfected with XRCC1 cDNA clone (Cat# [RC204952]) using MegaTran 2.0 (Cat# [TT210002]).