

Product datasheet for **TP304048M**

Ku70 (XRCC6) (NM_001469) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human X-ray repair complementing defective repair in Chinese hamster cells 6 (XRCC6), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204048 protein sequence Red =Cloning site Green =Tags(s)

MSGWESYYKTEGDEEAEEEQEENLEASGDYKYSGRDSLIFLVDASKAMFESQSEDELTPFDMSIQCIQSV
YISKIISSDRDLLAVFYGTEKDKNSVNFKNIIYVLQELDNPGAKRILELDQFKGQQGQKRFQDMMGHGSD
YSLSEVLWVCANLFSVDVQFKMSHKRIMLFTNEDNPHGNDSAKASRARTKAGDLRDTGIFLDMHLKPKPGG
FDISLFYRDIISIAEDEDLRVHFEESKLEDLLRKVRKETRKRALSRLKLNKDIVISVGIYNLVQKA
LKPPPIKLYRETNEPVKTKTRTFNTSTGGLLLPSDTKRSQIYGSRQIILEKEETEELKRFDGPGLMLMGF
KPLVLLKKHHYLRPSLFVYPEESLVIGSSTLFSALLIKCLEKEVAALCRYTPRRNIPPYFVALVPQEEEL
DDQKIQVTPPGFQLVFLPFADDKRKMPFTEKIMATPEQVGMKKAIVEKLRFTYRSDSFENPVLQQHFRNL
EALALDLMEPEQAVDLTLPKVEAMNKRLGSLVDEFKELVYPPDYNPEGKVTKRKHDNEGSGSKRPKVEYS
EEELKTHISKGTLGKFTVPMMLKEACRAYGLKSGLKKQELLEALTKEHFQD

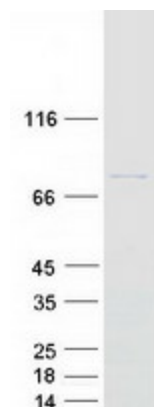
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	69.7 kDa
Concentration:	>0.1 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.
Storage:	Store at -80°C.



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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:	NP_001460
Locus ID:	2547
UniProt ID:	P12956 , A0A024R1N4 , Q6FG89
RefSeq Size:	2284
Cytogenetics:	22q13.2
RefSeq ORF:	1827
Synonyms:	CTC75; CTCBF; G22P1; KU70; ML8; TLAA
Summary:	The p70/p80 autoantigen is a nuclear complex consisting of two subunits with molecular masses of approximately 70 and 80 kDa. The complex functions as a single-stranded DNA-dependent ATP-dependent helicase. The complex may be involved in the repair of nonhomologous DNA ends such as that required for double-strand break repair, transposition, and V(D)J recombination. High levels of autoantibodies to p70 and p80 have been found in some patients with systemic lupus erythematosus. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Non-homologous end-joining

Product images:

Coomassie blue staining of purified XRCC6 protein (Cat# [TP304048]). The protein was produced from HEK293T cells transfected with XRCC6 cDNA clone (Cat# [RC204048]) using MegaTran 2.0 (Cat# [TT210002]).