

Recombinant Full Length Human TP53BP1 Protein, C-Flag-tagged

Cat. No. TP53BP1-1891HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TP53BP1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a protein that functions in the DNA double-strand break repair pathway choice, promoting non-homologous end joining (NHEJ) pathways, and limiting homologous recombination. This protein plays multiple roles in the DNA damage response, including promoting checkpoint signaling following DNA damage, acting as a scaffold for recruitment of DNA damage response proteins to damaged chromatin, and promoting NHEJ pathways by limiting end resection following a double-strand break. These roles are also important during V(D)J recombination, class switch recombination and at unprotected telomeres. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	213.4 kDa
AA Sequence	MDPTGSQLDSDFSQQDTPCLIEDSQPESQVLEDDSGSHFSMLSRHLPNLQTHKEN PVLDVVSNPEQTAG EERGDGNSGFNEHLKENKVADPVDSSNLDTCGSISQVIEQLP QPNRTSSVLGMSVESAPAVEEEKGEELE QKEKEKEEDTSGNTTHSLGAEDTASSQ

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LGFGVLELSQSQDVEENTVPYEVDKEQLQSVTTNSGYTRLSDV DANTAIKHEEQSN
EDIPIAEQSSKDIPVTAQPSKDVHVVEQNPPPARSEDMPFSPKASVAAMEAKEQLS
AQELMESGLQIQKSPEPEVLSTQEDLFDQSNKTVSSDGCSTPSREEGGCSLASTPA
TTLHLLQLSGQRSL VQESLSTNSSDLVAPSPDAFRSTPFIVPSSPTEQEGRQDKPM
DTSVLSEEGGEPPFQKKLQSSEPVELENP PLLPESTVSPQASTPISQSTPVFPPGSLP
IPSQPQFSDHIFIPSPSLEEQSNDDGKKDGMHSSSLTVECS KTSEIEPKNSPEDLGL
SLTGDSCKLMLSTSEYSQSPKMESLSSHRIDEDGENTQIEDTEPMSPVLNSKFV PA
ENDSILMNPAQDGEVQLSQNDCKTKGDDTDTRDDISILATGCKGREETVAEDVCIDL
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GEELKEENMESVPLHLSLTETQSQG LCLQKEMPKECSEAMEVETSVISIDSPQKLA
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DIAPEIEPCAENRLDTKEEKSVEYEGDLKSGTAETEPVEQDSSQPSLPLVRA DDPLR
LDQELQQPQTQEKTNSLTEDSKMANAKQLSSDAEAQKLGKPSAHASQSFCSSS
ETPFHFTLPK EGDIIPLTGATPPLIGHLKLEPKRHSTPIGISNYPESTIATSDVMSES
MVETHDPILGSGKGDGAAPD VDDKLCLRMKLVSPETEASEESLQFNLEKPATGER
KNGSTAVAESVASPQKTMSVLSCEARQENARS EDPPTTPIRGNLLHFPSSQGE
EEKEKLEGDHTIRQSQQPMKPISPVKDPVSPASQKMVIQGPSSPQGEAM VTDVLED
QKEGRSTNQENPSKALIERPSQNNIGIQTMECSLRVPETVSAATQTIKNVCEQGTST
VDQNFG KQDATVQTERGSGEKPVSA PGDDTESLHSQGEEEFDMPQPPHGHVLR
HMRTIREVRTLVTRVITDVYYV DGTEVERKVTEETEEPIVECECETEVSPTSQGG
SGDLGDISSFSSKASSLHRTSSGTSLSAMHSSGSS GKGAGPLRGKTSGETPADFAL
PSSRGGPGKLSRKGVSQTGTPVCEEDGDAGLGIRQGGKAPVTPRGRGR RGRPP
SRTTGTRETAVPGPLGIEDISPNLSPDDKSFSRVVPRVPDSTRRTDVGAGALRRSDS
PEIPFQAA AGPSDGLDASSPGNSFVGLRVVAKWSSNGYFYSGKITRDVGAGKYKLL
FDDGYECDVLGKDILLCDPIPL DTEVTALSEDEYFSAGVVKGHRKESGELYYSIEKE
GQRKWKYKMAVILSLEQGNRLREQYGLGPYEAFTP LTKAADISLDNLVEGKRKRRS
NVSSPATPTASSSSSTPTRKITESPRASMGVLSGKRKLITSEEERSPA KRGRKSAT
VKPGAVGAGEFVSPCESGDNTGEPSEALQEQRGPLPLNKTFLGYAFLTMATTSK
LASRSK LPDGPTGSSEEEEEEFLEIPPFNKQYTESQLRAGAGYILEDNEAQCNTAYQ
CLLIADQHCRTRKYFLCLA SGIPCVSHVWVHDSCHANQLQNYRNYLLPAGYSLEEQ

RILDWQPRENPFQNLKVLLVSDQQNFLELWSE ILMTGGAASVKQHHSSAHNKDIA
 LGVFDVVVTDPSCPASVLKCAEALQLPVVSQEWVIQCLIVGERIGFK QHPKYKHDYV
 SH TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transcription Factors
Full Length	Full L.

GENE INFORMATION

Gene Name	TP53BP1 tumor protein p53 binding protein 1 [Homo sapiens (human)]
Official Symbol	TP53BP1
Synonyms	p202; 53BP1; TDRD30; p53BP1
Gene ID	7158
mRNA Refseq	NM_005657.4

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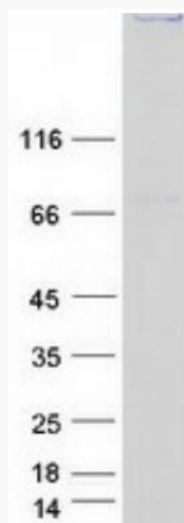
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Protein Refseq [NP_005648.1](#)

MIM [605230](#)

UniProt ID [Q12888](#)



Coomassie blue staining of purified TP53BP1 protein.

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