

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 QPNRTSSVLGMSVESAPAVEEEKGEELQ KEKEKEEEDTSGNTHSLGAEDTASSQ

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LGFGVLELSQSQDVEENTVPYEVDKEQLQSVTTNSGYTRLSDV DANTAIKHEEQSN
EDIPIAEQSSKDIPVTAQPSKDVHVVEKQNPAPARSEDMPFSPKASVAAMEAKEQLS
AQELMESGLQIQKSPEPEVLSTQEDLFDQSNKTVSSDGCSTPSREEGGCSLASTPA
TTLHLLQLSGQRSL VQESLSTNSSDLVAPSPDAFRSTPFVFPSSPTEQEGRQDKPM
DTSVLSEEGGEPFQKKLQSSEPVELENP PLLPESTVSPQASTPISQSTPVFPPGSLP
IPSQPQFSDHIFIPSPSLEEQSNKGKDGDMHSSSLTVECS KTSEIEPKNSPEDLGL
SLTGDSCKLMLSTSEYSQSPKMESLSSHRIDEDGENTQIEDTEPMSPVLNSKFV PA
ENDSILMNP AQDGEVQLSQNDDKTKGDDTDTRDDISILATGCKGREETVAEDVCIDL
TCDSGSQAVPS PATRSEALSSVLDQEEAMEIKEHHPEEGSSGSEVEEIPETPCESQ
GEELKEENMESVPLHLSLTETQSQG LCLQKEMPKKECSEAMEVETSVISIDSPQKLA
ILDQELEHKEQEAWEATSEDSSVIVDVKEPSRVDV SCEPLEGVEKCSDSQSWE
DIAPEIEPCAENRLDTKEEKSVEYEGDLKSGTAETEPVEQDSSQPSLPLVRA DDPLR
LDQELQQPQTQEKTSNSLTEDSKMANAKQLSSDAEAQKLGKPSAHASQSFCESSS
ETPFHFTLPK EGDIIPLTGATPPLIGHLKLEPKRHSTPIGISNYPESTIATSDVMSES
MVETHDPILGSGKGDGAAPD VDDKLCRLMKLVSPETEASEESLQFNLEKPATGER
KNGSTAVAESVASPQKTMSVLSCICEARQENEARSDPPTPIRGNLLHFPSSQGE
EEKEKLEGDHTIRQSQQPMKPIPVKDPVSPASQKMVIQGPSSPQGEAM VTDVLED
QKEGRSTNQENPSKALIERPSQNNIGIQTMECSLRVPETVSAATQTIKNVCEQGTST
VDQNFQ KQDATVQTERGSGEKPV SAPGDDTESLHSQGEFFDMPQPPHGHVLRH
HMRTIREVRTLVTRVITDVVVYV DGTEVERKVTEETEEPIVEQCCEQEVSPSQTGGS
SGDLGDISSFSSKASSLHRTSSGTSLSAMHSSGSS GKGAGPLRGKTSGETPADFAL
PSSRGGPGKLSRKGVSQTGTPVCEEDGDAGLGIRQGGKAPVTPRGRGR RGRPP
SRTTGTRETAVPGPLGIEDISPNSPDDKSFVPRVVPDSTRRTDVGAGALRRSDS
PEIPFQAA AGPSDGLDASSPGNSFVGLRVVAKWSSNGYFYSGKITRDVGAGKYKLL
FDDGYECDVLGKDILLCDPIPL DTEVTALSEDEYFSAGVVKGHRKESGELYYSIEKE
GQRKWKYKMAVILSLEQGNRLREQYGLGPYEAFTP LTKAADISLDNLVEGKRKRRS
NVSSPATPTASSSSSTTPTRKITESPRASMGVLSGKRKLITSEEERSPA KRGRKSAT
VKPGAVGAGEFVSPCESGDNTGEPSEALEEQRGPLPLNKTFLGYAFLLTMATTSK
LASRSK LPDGPTGSSEEEEEFLEIPPFNKQYTESQLRAGAGYILEDNFNEAQCNTAYQ
CLLIADQHCRTRKYFLCLA SGIPCVSHVWVHDSCHANQLQNYRNYLLPAGYSLEEQ

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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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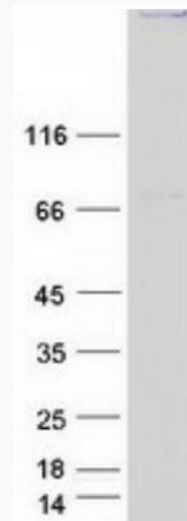
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Protein Refseq NP_005648.1

MIM 605230

UniProt ID Q12888



Coomassie blue staining of purified TP53BP1 protein.

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