

Recombinant Human TP53BP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TP53BP1-5803H Lot. No. (See product label)

SPECIFICATION

Product Overview

TP53BP1 MS Standard C13 and N15-labeled recombinant protein (NP_005648) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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.

Molecular Mass

213.4 kDa

AA Sequence

MDPTGSQLDSDFSQQDTPCLIIEDSQPESQVLEDDSGSHFSMLSRHLPNLQTHKEN
 PVLDVVSNPEQTAGEERGDNSTGFNEHLKENKVADPVDSSNLDTCGSISQVIEQLP
 QPNRTSSVLGMSVESAPAVEEEKGEELEQKEKEKEEDTSGNTTHSLGAEDTASSQL
 GFGVLELSQSQDVEENTVPYEVDKEQLQSVTTNSGYTRLSDVDANTAIKHEEQSNE

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DIPIAEQSSKDIPVTAQPSKDVHVVKEQNPPPARSEDMPFSPKASVAAMEAKEQLSA
QELMESGLQIQKSPEPEVLSTQEDLFDQSNKTVSSDGCSTPSREEGGCSLASTPAT
TLHLLQLSGQRSLVQESLSTNSSDLVAPSPDAFRSTPFIVPSSPTEQEGRQDKPMDT
SVLSEEGGEPFQKKLQSSEPVELENPPLLPESTVSPQASTPISQSTPVFPPGSLPIPS
QPQFSHDIFIPSPSLEEQSNKGKDGDMHSSSLTVECSKTSEIEPKNSPEDLGLSLT
GDSCKLMLSTSEYSQSPKMESLSSHRIDEDGENTQIEDTEPMSPVLNSKFVPAEND
SILMNPAQDGEVQLSQNDDKTKGDDTDTRDDISILATGCKGREETVAEDVCIDLTC
SGSQAVPSPATRSEALSSVLDQEEAMEIKEHHPEEGSSGSEVEEIPETPCESQGEEL
KEENMESVPLHLSLTETQSQGLCLQKEMPKKECSEAMEVETSVISIDSPQKLAILDQ
ELEHKEQEAWEAATSEDSVVIVDVKEPSRVDVSCEPLEGVEKCSDSQSWEDIAP
EIEPCAENRLDTKEEKSVEYEGDLKSGTAETEPVEQDSSQPSLPLVRADDPLRLDQE
LQQPQTQEKTSNSLTEDSKMANAKQLSSDAEAQKLGKPSAHASQSFCESSETPFH
FTLPKEGDIIPPLTGATPPLIGHLKLEPKRHSTPIGISNYPESTIATSDVMSESMVETHD
PILGSGKGDGAAPDVKLCLRMKLVSPETEASEESLQFNLEKPATGERKNGSTA
VAESVASPQKTMSVLSCICEARQENEARSEDPTTPIRGNLLHFPSSQGEEEEKEKLE
GDHTIRQSQQPMKPIPVKDPVSPASQKMVIQGPSSPQGEAMVTDVLEDQKEGRST
NQENPSKALIERPSQNNIGIQTMECSLRVPETVSAATQTIKNVCEQGTSTVDQNFQK
QDATVQTERGSGEKPVSAPGDDTESLHSQGEEFDMPQPPHGHVLRHRMRTIREV
RTLVTREVITDVYYVDGTEVERKVTEETEEPIVECQECETEVSPSQTGGSSGDLGDIS
SFSSKASSLHRTSSGTSLSAMHSSGSSGKAGPLRGKTSGETPADFALPSSRGGP
GKLSRKGVSQTGTPVCEEDGDAGLGIRQGGKAPVTPRGRGRRGRPPSRTTGTR
TAVPGPLGIEDISPNSPDDKFSRVVPRVPDSTRRTDVGAGALRRSDSPEIPFQAA
AGPSDGLDASSPGNSFVGLRVVAKWSSNGYFYSGKITRDVGAGKYKLLFDDGYEC
DVLGKDILLCDPIPLDTEVTALSEDEYFSAGVVKGHRKESGELYYSIEKEGQRKWKYK
RMAVILSLEQGNRLREQYGLGPYEAVTPLTKAADISLDNLVEGKRKRNSNVSSPATP
TASSSSSTTPTRKITESPRASMGVLSGKRKLITSEEERSPAKRGRKRSATVKPGAVGA
GEFVSPCESGDNTGEPALQEQRGLPLNKTFLFLGYAFLLTMATTSDKLASRSKLPD
GPTGSSEEEEEFLEIPPFNKQYTESQLRAGAGYILEDNEAQCNTAYQCLLIADQHC
RTRKYFLCLASGIPCVSHVWVHDSCHANQLQNYRNYLLPAGYSLEEQRILDWQPRE
NPFQNLKVVLLVSDQQNFLELWSEILMTGGAASVKQHHSSAHNKDIALGVFDVVVT

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DPSCPASVLKCAEALQLPVVSQEWVIQCLIVGERIGFKQHPKYKHDYVSHTRTRPLE
 QKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name TP53BP1 tumor protein p53 binding protein 1 [Homo sapiens (human)]

Official Symbol TP53BP1

Synonyms TP53BP1; tumor protein p53 binding protein 1; tumor protein p53 binding protein, 1; tumor suppressor p53-binding protein 1; 53BP1; p202; p53BP1; p53-binding protein 1; tumor protein 53-binding protein, 1; tumor protein p53-binding protein, 1; FLJ41424; MGC138366;

Gene ID 7158

mRNA Refseq NM_005657

Protein Refseq NP_005648

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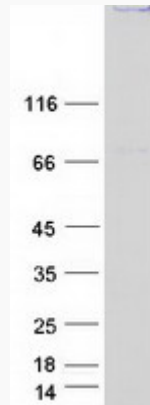
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MIM 605230


UniProt ID Q12888

SDS-PAGE



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