

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	MDPTGSQLDSDFSQQDTPCLIEDSQPESQVLEDDSGSHFSMLSRHLPNLQTHKEN PVLDVVSNPEQTAGEERGDN SGFNEHLKENKVADPVDSSNLDTCGSISQVIEQLP QPNRTSSVLGMSVESAPAVEEEKGEELEQKEKEKEEDTSGNTTTHSLGAEDTASSQL GFGVLELSQSQDVEENTVPYEVDKEQLQSVTTNSGYTRLSDVDANTAIKHEEQSNE

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DIPIAEQSSKDIPVTAQPSKDVHVVKEQNPPPARSEDMPFSPKASVAAMEAKEQLSA
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QPQFSHDIFIPSPSLEEQSNKGKDGDMHSSSLTVECSKTSEIEPKNSPEDLGLSLT
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SILMNPAQDGEVQLSQNDDKTKGDDTDTRDDISILATGCKGREETVAEDVCIDLTC
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PILGSGKGDGAAPDVDDKLCRLMKLVSPETEASEESLQFNLEKPATGERKNGSTA
VAESVASPQKTMSVLSCICEARQENEARSEDPTTPIRGNLLHFPSSQGEEEEKEKLE
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DVLGKDILLCDPIPLDTEVTALSEDEYFSAGVVKGHRKESGELYYSIEKEGQRKWKY
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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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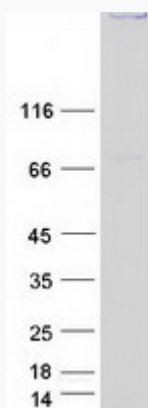
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MIM 605230

UniProt ID Q12888

SDS-PAGE



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