

Product datasheet for TP511448

Trp53bp1 (BC035206) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse transformation related protein 53 binding protein 1 (cDNA clone MGC:30704 IMAGE:3979746), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211448 protein sequence Red =Cloning site Green =Tags(s) MVEINDPLLGNKGDSESAPEMDGKLSLKMMLVSPETEASEESLQFSLEKPTTAERKNGSTAIAEPVASL QKVPVFGCIYEAQQEKEAQSEAPPSAPDRANLLHFPSAQEEDKERPDVTPNLRQSEQPVKPVGPMDD A APEDSASPVSQQRASQEPFSPAEDVMETDLLEGLAANQDRPSKMLMDRPTQSNIGIQTVDHSLCAPETVS AATQTVKSVCEQGTSTAEQNSGKQDATVQTERGSGEKPASAPVDDTESLHSQGEFEFEMPQPPHGHVLH R HMRTIREVRTLVTRVITDVYYVDGTEVERKVTEETEEPIVECQECETEVSPSQTGGSSGDLGDISSFSSK ASSSHTSSGTSLSAIHSSGSSGRGAGPLKKGKASGTEAADFALPSSRGGPGKLSRKGISQTGAPVCEED GDAGLGIRQGGKAPVTPRGRGRRGRPPSRTTGTRETTVSGPLGVEDISPSMSPDDKSFTTRIMPRVPDSTK RTDASSSTLRRSDSPEIPFQAATGSSDGLDSSSGNSFVGLRVVAKWSSNGYFYSGKITRDVGAGKYKLL FDDGYECDVLGKDILLCDPIPLDTEVTALSEDEYFSAGVVKGHRKESGELYYSIEKEGQRKWKYKRMVIL SLEQGNRLREQYGLGPYEAVTPLTKAADISLDNLVEGKRKRRSNISSPVTPTAASSSSTTPTRKATESPR ASTGVPSGKRKLPTSEEERSPAKRGRKSATVKPGTVGAAEFVSPCETGDNIGEPSVLEEPRGPLPLNKT FLGYAFLMTATSDKLASRSKLLDGPTGSSEEEEFLEIPPFNKQYTECQLRAGAGYILEDNFNEAQCNT AYQCLLIADQHCRTKRYFLCLASGIPCVSHVWVHDSCHANQLQNYRNYLLPAGYSLEEQRILDWQPRENP FQNLKVLLSDQQNFLELWSEILMTGGAASVKQHSSAHNKDIALGVFDVWVTDPCSPASVLKCAEALQ LPVVSQEWVIQCLIVGERIGFKQHPKYKHDYVSH TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	109.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method


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Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
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 after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Locus ID:	27223
UniProt ID:	<u>P70399</u>
RefSeq Size:	3441
Cytogenetics:	2 E5
RefSeq ORF:	3042
Synonyms:	m53BP1, 53BP1
Summary:	Double-strand break (DSB) repair protein involved in response to DNA damage, telomere dynamics and class-switch recombination (CSR) during antibody genesis (PubMed:15159415, PubMed:15077110, PubMed:20453858, PubMed:23333305, PubMed:26308889, PubMed:20362325). Plays a key role in the repair of double-strand DNA breaks (DSBs) in response to DNA damage by promoting non-homologous end joining (NHEJ)-mediated repair of DSBs and specifically counteracting the function of the homologous recombination (HR) repair protein BRCA1 (PubMed:23333305, PubMed:20362325). In response to DSBs, phosphorylation by ATM promotes interaction with RIF1 and dissociation from NUDT16L1/TIRR, leading to recruitment to DSBs sites. Recruited to DSBs sites by recognizing and binding histone H2A monoubiquitinated at 'Lys-15' (H2AK15Ub) and histone H4 dimethylated at 'Lys-20' (H4K20me2), two histone marks that are present at DSBs sites. Required for immunoglobulin class-switch recombination (CSR) during antibody genesis, a process that involves the generation of DNA DSBs (PubMed:15159415, PubMed:15077110). Participates to the repair and the orientation of the broken DNA ends during CSR (PubMed:26308889). In contrast, it is not required for classic NHEJ and V(D)J recombination (PubMed:15159415). Promotes NHEJ of dysfunctional telomeres (By similarity). [UniProtKB/Swiss-Prot Function]