# TP53BP2 siRNA – Apoptosis-Stimulating of P53 Protein 2 Isoform 1 (Human)

## PRODUCT OVERVIEW

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| **Product Name** | TP53BP2, siRNA |
| **Full Product Name** | TP53BP2 siRNA (Human) |
| **Product Gene Name** | TP53BP2 sirna |
| **Product Synonym Names** | ASPP2; BBP; Apoptosis-stimulating of p53 protein 2; Bcl2-binding protein; Bbp; Renal carcinoma antigen NY-REN-51; Tumor suppressor p53-binding protein 2; 53BP2; p53-binding protein 2; p53BP2 |
| **Host** | Synthetic |
| **Species Reactivity** | Human |
| **Form/Format** | Lyophilized powder |
| **Purity/Purification** | > 97% |
| **Specificity** | TP53BP2 siRNA (Human) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression. |
| **Preparation and Storage** | Shipped at 4 degree C. Store at -20 degree C for one year. |
| **Molecular Weight** | 126,323 Da |
| **OMIM** | 602143 |
| **3D Structure** | ModBase 3D Structure for Q13625 |
| **Negative Control** | siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection. |
| **Quality Control** | Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency. |
| **Directions for Use** | We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well). |
| **Components** | We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of human TP53BP2 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo. |
| **Applications Tested/Suitable for TP53BP2 sirna** | RNA Interference (RNAi) |
| **Related Product Information for TP53BP2 sirna** | MBS8227441 is an siRNA targeting TP53BP2. Also known as TP53BP2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit TP53BP2 expression using RNA interference |
| **Other Notes** | Small volumes of TP53BP2 sirna vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TP53BP2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 112799849 |
| **NCBI GeneID** | 7159 |
| **NCBI Accession #** | NP_001026855.2 |
| **UniProt Primary Accession #** | Q13625 |
| **UniProt Secondary Accession #** | Q12892; Q86X75; Q96KQ3; B4DG66 |
| **UniProt Related Accession #** | Q13625 |
| **GenBank Nucleotide #** | NM_001031685.2 |
| **NCBI Official Full Name** | apoptosis-stimulating of p53 protein 2 isoform 1 |
| **NCBI Official Synonym Full Names** | tumor protein p53 binding protein 2 |
| **NCBI Official Symbol** | TP53BP2 |
| **NCBI Official Synonym Symbols** | BBP; 53BP2; ASPP2; P53BP2; PPP1R13A |
| **UniProt Protein Name** | Apoptosis-stimulating of p53 protein 2 |
| **UniProt Synonym Protein Names** | Bcl2-binding protein; Bbp; Renal carcinoma antigen NY-REN-51; Tumor suppressor p53-binding protein 2; 53BP2; p53-binding protein 2; p53BP2 |
| **Protein Family** | Apoptosis-stimulating of p53 protein |
| **UniProt Gene Name** | TP53BP2 |
| **UniProt Synonym Gene Names** | ASPP2; BBP; Bbp; 53BP2; p53-binding protein 2; p53BP2 |
| **UniProt Entry Name** | ASPP2_HUMAN |
| **NCBI Protein Information** | apoptosis-stimulating of p53 protein 2 |
| **NCBI Summary for TP53BP2** | This gene encodes a member of the ASPP (apoptosis-stimulating protein of p53) family of p53 interacting proteins. The protein contains four ankyrin repeats and an SH3 domain involved in protein-protein interactions. It is localized to the perinuclear region of the cytoplasm, and regulates apoptosis and cell growth through interactions with other regulatory molecules including members of the p53 family. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for TP53BP2** | 53BP2: Regulator that plays a central role in regulation of apoptosis and cell growth via its interactions. Regulates TP53 by enhancing the DNA binding and transactivation function of TP53 on the promoters of proapoptotic genes in vivo. Inhibits the ability of APPBP1 to conjugate NEDD8 to CUL1, and thereby decreases APPBP1 ability to induce apoptosis. Impedes cell cycle progression at G2/M. Its apoptosis-stimulating activity is inhibited by its interaction with DDX42. Belongs to the ASPP family. 3 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Transcription, coactivator/corepressor<br><br>Chromosomal Location of Human Ortholog: 1q41<br><br>Cellular Component: perinuclear region of cytoplasm; cytoplasm; nucleus<br><br>Molecular Function: identical protein binding; NF-kappaB binding; protein binding; SH3/SH2 adaptor activity; SH3 domain binding<br><br>Biological Process: embryonic development ending in birth or egg hatching; central nervous system development; positive regulation of signal transduction; heart development; response to ionizing radiation; signal transduction; cell cycle; negative regulation of cell cycle |
| **Research Articles on TP53BP2** | **1.** These results identify previously uncharacterized regions distributed throughout the protein sequence of ASPP2 as determinants of CagA binding, providing mechanistic insight into apoptosis reprogramming by CagA. |

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