# Speckle-Type POZ Protein (SPOP) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Speckle-type POZ protein (SPOP), Recombinant Protein |
| **Full Product Name** | Recombinant Human Speckle-type POZ protein (SPOP) |
| **Product Gene Name** | SPOP recombinant protein |
| **Sequence** | MSRVPSPPPP AEMSSGPVAE SWCYTQIKVV KFSYMWTINN FSFCREEMGE VIKSSTFSSG ANDKLKWCLR VNPKGLDEES KDYLSLYLLL VSCPKSEVRA KFKFSILNAK GEETKAMESQ RAYRFVQGKD WGFKKFIRRD FLLDEANGLL PDDKLTLFCE VSVVQDSVNI SGQNTMNMVK VPECRLADEL GGLWENSRFT DCCLCVAGQE FQAHKAILAA RSPVFSAMFE HEMEESKKNR VEINDVEPEV FKEMMCFIYT GKAPNLDKMA DDLLAAADKY ALERLKVMCE DALCSNLSVE NAAEILILAD LHSADQLKTQ AVDFINYHAS DVLETSGWKS MVVSHPHLVA EAYRSLASAQ CPFLGPPRKR LKQS |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 42,132 Da |
| **Sequence Positions** | 1-374, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **OMIM** | 602650 |
| **3D Structure** | ModBase 3D Structure for O43791 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for SPOP recombinant protein** | This gene encodes a protein that may modulate the transcriptional repression activities of death-associated protein 6 (DAXX), which interacts with histone deacetylase, core histones, and other histone-associated proteins. In mouse, the encoded protein binds to the putative leucine zipper domain of macroH2A1.2, a variant H2A histone that is enriched on inactivated X chromosomes. The BTB<br>POZ domain of this protein has been shown in other proteins to mediate transcriptional repression and to interact with components of histone deacetylase co-repressor complexes. Alternative splicing of this gene results in multiple transcript variants encoding the same protein. |
| **Other Notes** | Small volumes of SPOP recombinant protein 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. |
| **Searchable Terms for SPOP purchase** | MBS1222723 is a recombinant protein targeting SPOP. Also known as Recombinant Human Speckle-type POZ protein (SPOP). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 56117836 |
| **NCBI GeneID** | 8405 |
| **NCBI Accession #** | NP_001007227.1 |
| **UniProt Primary Accession #** | O43791 |
| **UniProt Secondary Accession #** | Q53HJ1; B2R6S3; D3DTW7 |
| **UniProt Related Accession #** | O43791 |
| **GenBank Nucleotide #** | NM_001007226.1 |
| **NCBI Official Full Name** | speckle-type POZ protein |
| **NCBI Official Synonym Full Names** | speckle type BTB/POZ protein |
| **NCBI Official Symbol** | SPOP |
| **NCBI Official Synonym Symbols** | TEF2; BTBD32 |
| **UniProt Protein Name** | Speckle-type POZ protein |
| **UniProt Synonym Protein Names** | HIB homolog 1; Roadkill homolog 1 |
| **Protein Family** | Speckle-type POZ protein |
| **UniProt Gene Name** | SPOP |
| **NCBI Protein Information** | speckle-type POZ protein |
| **NCBI Summary for SPOP** | This gene encodes a protein that may modulate the transcriptional repression activities of death-associated protein 6 (DAXX), which interacts with histone deacetylase, core histones, and other histone-associated proteins. In mouse, the encoded protein binds to the putative leucine zipper domain of macroH2A1.2, a variant H2A histone that is enriched on inactivated X chromosomes. The BTB/POZ domain of this protein has been shown in other proteins to mediate transcriptional repression and to interact with components of histone deacetylase co-repressor complexes. Alternative splicing of this gene results in multiple transcript variants encoding the same protein. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for SPOP** | Component of a cullin-RING-based BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex that mediates the ubiquitination of target proteins, leading most often to their proteasomal degradation. In complex with CUL3, involved in ubiquitination and proteasomal degradation of BRMS1, DAXX, PDX1/IPF1, GLI2 and GLI3. In complex with CUL3, involved in ubiquitination of H2AFY and BMI1; this does not lead to their proteasomal degradation. Inhibits transcriptional activation of PDX1/IPF1 targets, such as insulin, by promoting PDX1/IPF1 degradation. The cullin-RING-based BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex containing homodimeric SPOP has higher ubiquitin ligase activity than the complex that contains the heterodimer formed by SPOP and SPOPL. |
| **Research Articles on SPOP** | **1.** methylation status of SPOP promoter can be used as a novel epigenetic biomarker and a therapeutic target in colorectal cancer. |
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