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SPOP Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP18747a

Specification

SPOP Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O43791

SPOP Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 8405

Other Names
Speckle-type POZ protein, HIB homolog 1, Roadkill homolog 1, SPOP

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SPOP Antibody (N-term) Blocking Peptide - Protein Information

Name SPOP (HGNC:11254)

Function
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 MACROH2A1 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. Involved in the regulation of bromodomain and extra-terminal motif (BET) proteins BRD2, BRD3, BRD4 stability (PubMed:32109420). Plays an essential role for proper translation, but not for their degradation, of critical DNA replication licensing factors CDT1 and CDC6, thereby participating in DNA synthesis and cell proliferation (PubMed:36791496). Regulates interferon regulatory factor 1/IRF1 proteasomal turnover by targeting S/T-rich degrons in IRF1 (PubMed:37622993). Facilitates the lysosome-dependent degradation of enterovirus EV71 protease 2A by inducing its 'Lys-48'- linked polyubiquitination, which ultimately restricts

EV71 replication (PubMed:37796126). Acts as an antiviral factor also against hepatitis B virus/HBV by promoting ubiquitination and subsequent degradation of HNF1A (PubMed:38018242). In turn, inhibits HBV transcription and replication by preventing HNF1A stimulating activity of HBV preS1 promoter and enhancer II (PubMed:38018242).

Cellular Location
Nucleus. Nucleus speckle Cytoplasm

Tissue Location
Widely expressed..

SPOP Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SPOP Antibody (N-term) Blocking Peptide - Images

SPOP Antibody (N-term) Blocking Peptide - Background

This gene encodes a protein that may modulate thetranscriptional repression activities of death-associated protein 6(DAXX), which interacts with histone deacetylase, core histones,and other histone-associated proteins. In mouse, the encodedprotein binds to the putative leucine zipper domain of macroH2A1.2,a variant H2A histone that is enriched on inactivated Xchromosomes. The BTB/POZ domain of this protein has been shown inother proteins to mediate transcriptional repression and tointeract with components of histone deacetylase co-repressorcomplexes. Alternative splicing of this gene results in multipletranscript variants encoding the same protein. [provided byRefSeq].

SPOP Antibody (N-term) Blocking Peptide - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :Zhuang, M., et al. Mol. Cell 36(1):39-50(2009)Liu, J., et al. Science 323(5918):1218-1222(2009)Bunce, M.W., et al. J. Biol. Chem. 283(13):8678-8686(2008)Byun, B., et al. Biofactors 31 (3-4), 165-169 (2007) :