# **Product Datasheet**

## SPOP Antibody - Azide and BSA Free H00008405-B01P

Unit Size: 0.05 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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#### H00008405-B01P

SPOP Antibody - Azide and BSA Free

Product Information	
Unit Size	0.05 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH 7.4)
Product Description	
Description	Quality control test: Antibody reactive against mammalian transfected lysate.
Host	Mouse
Gene ID	8405
Gene Symbol	SPOP
Species	Human
Specificity/Sensitivity	SPOP - speckle-type POZ protein,
Immunogen	SPOP (NP_001007227.1, 1 a.a 374 a.a.) full-length human protein. MSRVPSPPPAEMSSGPVAESWCYTQIKVVKFSYMWTINNFSFCREEMGEVIK SSTFSSGANDKLKWCLRVNPKGLDEESKDYLSLYLLLVSCPKSEVRAKFKFSIL NAKGEETKAMESQRAYRFVQGKDWGFKKFIRRDFLLDEANGLLPDDKLTLFCE VSVVQDSVNISGQNTMNMVKVPECRLADELGGLWENSRFTDCCLCVAGQEFQ AHKAILAARSPVFSAMFEHEMEESKKNRVEINDVEPEVFKEMMCFIYTGKAPNL DKMADDLLAAADKYALERLKVMCEDALCSNLSVENAAEILILADLHSADQLKTQ AVDFINYHASDVLETSGWKSMVVSHPHLVAEAYRSLASAQCPFLGPPRKRLKQ S
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
Recommended Dilutions	Western Blot 1:500, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Knockdown Validated
Application Notes	Antibody reactivity against Recombinant Protein with GST tag on ELISA and WB and also on transfected lysate in WB. GST tag alone is used as a negative control. It has been used for IF. Use in Immunohistochemistry-paraffin reported in scientific literature (PMID: 24912477).





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Western Blot: SPOP Antibody [H00008405-B01P] - Repression of SPOP promotes proliferation & migration of gastric cancer cells. (A) MKN45 cells were transfected with GFP-tagged miR-SPOP & screened by flow cytometry for the stable cells. Western blotting was performed to detect SPOP expression. (B) Repression of SPOP enhances gastric cancer cell viability. The viability of MKN45 cells was assessed using an MTT assay. Data represent the average of three experiments (mean  $\pm$  SD). \*P < 0.05, compared to control cells. (C) Repression of SPOP promotes Ki-67 expression in nucleus. Immunofluorescent stainings of transfected miR-IB: SPI SPOP & endogenous Ki-67 were performed in MKN45 cells. MKN45 cells were transfected with GFP-tagged miR-SPOP for 48 h. Ki-67 was detected by incubating cells with mouse anti-Ki-67 & subsequently with Alexa Fluor 594 goat anti-mouse antibodies. Nucleus was identified by DAPI staining. (D, E) Repression of SPOP accelerates MKN45 cell IB: G migration in a scratch assay. Bars represent the standard deviation of three independent experiments. \*\*P < 0.01, compared to DMSO treated control. (F) Repression of SPOP increases gastric cancer cell colony formation. Two hundred stable miR-SPOP transfected MKN45 cells were seeded into 12-well plates for 2 weeks. Colonies were fixed & stained IB: GAPD with crystal violet & then counted if the colonies > 50 cells. (G) Histograms show the colony formation rate. Data represent the average of three experiments (mean  $\pm$  SD). \*\*P < 0.01, compared to DMSO treated cells. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/25204354), licensed under a CC-BY license. Not internally tested by Novus Biologicals. D Western Blot: SPOP Antibody [H00008405-B01P] - SPOP expression in gastric cancer. (A) The representative photos of SPOP expression in Case #1 Case #3 Case #2 Case #4 gastric cancer tissues & adjacent gastric tissues by using A C A C A C A Ċ immunohistochemical staining (DAB staining, scale bar, 40 µm). Magnified local images reflecting detailed information were shown on the bottom, (B, C) SPOP expression was plotted using the immunochemical scores as described in the Methods. B, plot of SPOP scores in each gastric carcinoma & adjacent tissues. C, scores of SPOP expression are (A, adjacent tissue; C, gastric cancer tissue) shown as box plots. The horizontal lines represent the median. The bottom & top edges of the boxes represent the 25th & 75th percentiles, respectively. & the vertical bars represent the range of the data. n = 88. (D) Representative immunoblotting of SPOP protein in gastric cancer samples. C refers to gastric cancer tissue & A refers to paired adjacent non-tumor gastric tissue from the same patient. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/25204354), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

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IB: SPOP

IB: β-actin



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Western Blot: SPOP Antibody [H00008405-B01P] - SPOP promotes tumor cell apoptosis. (A) Overexpression of SPOP upregulates the expression of apoptotic proteins. MKN45 cells were transfected with Myc-SPOP & incubated for 48 h. Target proteins in cell lysates were detected by indicated antibodies using Western blotting. (B) Repression of SPOP inhibits cancer cell apoptosis. MKN45 cells were transfected with miR-SPOP-1430 & incubated for 48 h. Target proteins in cell lysates were probed with indicated antibodies using Western blotting. (C) Overexpressed SPOP promotes cleaved Caspase-3 expression. AGS cells were transfected with Myc-SPOP for 48 h & then fixed. Myc-SPOP was detected by incubating cells with mouse anti-Myc antibody & subsequently Alexa Fluor 488 goat anti-mouse antibody. Cleaved Caspase-3 was detected by incubating cells with rabbit anti-cleaved Caspase-3 & subsequently Alexa Fluor 594 donkey anti-rabbit antibody. Nucleus was identified by DAPI staining. (D) The representative photos of cleaved Caspase-3 expression in gastric cancer tissues & adjacent gastric tissues by using immunohistochemical staining (DAB staining, scale bar, 100 µm). Magnified local images reflecting detailed information were shown on the bottom. Image collected & cropped by CiteAb from the following publication

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#### **Publications**

Zeng Chunyan, Wang Yao, Lu Quqin et al. SPOP suppresses tumorigenesis by regulating Hedgehog/Gli2 signaling pathway in gastric cancer. J Exp Clin Cancer Res. 2014-09-11 [PMID: 25204354] (WB)

Jia D, Dong R, Jing Y et al. Exome sequencing of hepatoblastoma reveals novel mutations and cancer genes in the Wnt pathway and ubiquitin ligase complex. Hepatology. 2014-06-09 [PMID: 24912477] (WB, IHC-P, Human)

#### Details:

Caprin2 antibody used for immunostaining the formalin-fixed paraffin-embedded hepatoblastoma/HB tissues from surgical specimen archives (human - childern). The sections were processed using heat-induced epitope retrieval in EDTA (pH 9.0) with pressure cooker treatment for 2 min.





#### Novus Biologicals USA

10730 E. Briarwood Avenue Centennial, CO 80112 USA Phone: 303.730.1950 Toll Free: 1.888.506.6887 Fax: 303.730.1966 nb-customerservice@bio-techne.com

#### **Bio-Techne Canada**

21 Canmotor Ave Toronto, ON M8Z 4E6 Canada Phone: 905.827.6400 Toll Free: 855.668.8722 Fax: 905.827.6402 canada.inquires@bio-techne.com

## **Bio-Techne Ltd**

19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB, United Kingdom Phone: (44) (0) 1235 529449 Free Phone: 0800 37 34 15 Fax: (44) (0) 1235 533420 info.EMEA@bio-techne.com

## **General Contact Information**

www.novusbio.com Technical Support: nb-technical@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

### Products Related to H00008405-B01P

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97019-5mg	Mouse IgG Isotype Control
NBP1-51077-0.05mg	Recombinant Human SPOP His Protein

#### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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