**SANTA CRUZ BIOTECHNOLOGY, INC.**

**SPOP (B-8): sc-377206**

**BACKGROUND**

SPOP (speckle-type POZ protein), also known as TEF2, HIB homolog 1 or Roadkill homolog 1, is a member of the Tdpoz family containing one N-terminal MATH (Meprin and TRAF homology) domain and one C-terminal BTB/POZ domain. SPOP can exist as a homodimer and is expressed in a variety of tissues localizing to the nucleus. Through an interaction with CUL-3, SPOP is involved in ubiquitylation and protein degradation. SPOP specifically interacts with CUL-3 via its BTB/POZ domain and recruits substrates to the CUL-3-based ubiquitin ligase via its MATH domain. Substrates recruited by SPOP and targeted for ubiquitylation via the CUL-3/SPOP complex include PDX-1, Bmi-1, MacroH2A, PIPK II β and Daxx. These substrates are subsequently degraded by the proteasome. In addition, SPOP itself becomes ubiquitylated by the CUL-3-based ubiquitin ligase and is targeted for proteasomal degradation. SPOPL (speckle-type POZ protein-like), also known as HIB homolog 2 or Roadkill homolog 2, is a 392 amino acid nuclear protein that may be involved in ubiquitination and proteasomal degradation processes. SPOP and SPOPL share significant amino acid sequence homology.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: SPOP (human) mapping to 17q21.33; SPOP (mouse) mapping to 11 D.

**SOURCE**

SPOP (B-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 351-374 at the C-terminus of SPOP of human origin.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SPOP (B-8) is available conjugated to agarose (sc-377206 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377206 HRP), 200 µg/ml, for WB, IF, and ELISA; to either phycoerythrin (sc-377206 PE), fluorescein (sc-377206 FITC), Alexa Fluor® 488 (sc-377206 AF488), Alexa Fluor® 546 (sc-377206 AF546), Alexa Fluor® 594 (sc-377206 AF594) or Alexa Fluor® 647 (sc-377206 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-377206 AF680) or Alexa Fluor® 790 (sc-377206 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM. Blocking peptide available for competition studies, sc-377206 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

SPOP (B-8) is recommended for detection of SPOP of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); may cross-react with SPOPL.

SPOP (B-8) is also recommended for detection of SPOP in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SPOP siRNA (h): sc-63056, SPOP siRNA (m): sc-63057, SPOP shRNA Plasmid (h): sc-63056-Sh, SPOP shRNA Plasmid (m): sc-63057-Sh, SPOP shRNA (h) Lentiviral Particles: sc-63056-V and SPOP shRNA (m) Lentiviral Particles: sc-63057-V.

Molecular Weight of SPOP: 42 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206, PC-3 cell lysate: sc-2220 or SK-N-MC cell lysate: sc-2237.

**DATA**

[Image of Western Blot and Immunofluorescence staining]

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.