For Research Use Only

**SPOP**

**Polyclonal ANTIBODY**

Catalog Number: 16750-1-AP

**Featured Product**

**18 Publications**

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**Basic Information**

- **Catalog Number:** 16750-1-AP
- **Size:** 32 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG10215

**GenBank Accession Number:** BCOX3085

**GeneID (NCBI):** 8405

**Calculated MW:** 374aa, 42 kDa

**Observed MW:** 42 kDa

**Recommended Dilutions:**
- WB: 1:500-1:2000
- IHC: 1:50-1:500
- IF: 1:50-1:500

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**Applications**

**Tested Applications:** IF, IHC, WB, ELISA

**Cited Applications:** IF, IHC, IP, WB

**Species Specificity:** human, mouse, rat

**Cited Species:** human

**Positive Controls:**
- WB: HepG2 cells, HeLa cells, PC-3 cells
- IHC: human prostate cancer tissue
- IF: HepG2 cells

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**Background Information**

The SPOP (TEF2) protein was previously identified as an autoantigen in a patient with scleroderma pigmentosum. 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. BTB-mediated SPOP dimers form linear oligomers via BACK domain dimerization, and we determine the concentration-dependent populations of the resulting oligomeric species ([PMID: 27220849](#)). Through an interaction with CUL-3, SPOP is involved in ubiquitinylation 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 ubiquitinylation via the CUL-3/SPOP complex include PDX-1, Bmi-1, MacroH2A, PIPK II− and Daxx. These substrates are subsequently degraded by the proteasome. In addition, SPOP itself becomes ubiquitlated by the CUL-3-based ubiquitin ligase and is targeted for proteasomal degradation.

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**Notable Publications**

<table>
<thead>
<tr>
<th>Author</th>
<th>PubMed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jian An</td>
<td>26344086</td>
<td>Mbi Cell</td>
<td>WB, IHC</td>
</tr>
<tr>
<td>Wenjian Gan</td>
<td>26344085</td>
<td>Mbi Cell</td>
<td>WB</td>
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<tr>
<td>Kun Gao</td>
<td>20900071</td>
<td>Am J Cancer Res</td>
<td>WB, IP</td>
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</tbody>
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**Storage**

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Alloquilting is unnecessary for -20°C storage

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For technical support and original validation data for this product please contact:

- T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
- E: proteintech@ptglab.com
- W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
HepG2 cells were subjected to SDS PAGE followed by western blot with 16750-1-AP SPOP Antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.


Immunofluorescent analysis of 10% Formaldehyde fixed HepG2 cells using 16750-1-AP SPOP antibody at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).