For Research Use Only

SPOP Polyclonal antibody

Catalog Number: 16750-1-AP

Featured Product

78 Publications



Purification Method:

WB 1:5000-1:50000 IF/ICC 1:50-1:500

Antigen affinity purification

Recommended Dilutions:

Basic Information

Catalog Number: 16750-1-AP

Size: 500 μg/ml Source: Rabbit Isotype:

Immunogen Catalog Number:

AG10215

GenBank Accession Number:

BC003385 GeneID (NCBI): 8405

UNIPROT ID: 043791 Full Name:

speckle-type POZ protein

Calculated MW: 374 aa, 42 kDa

Observed MW:

42 kDa

Applications

Tested Applications: WB, IF/ICC, ELISA **Cited Applications:**

WB, IHC, IF, IP, CoIP, RIP Species Specificity: human, mouse, rat **Cited Species:** human, mouse, rat

Positive Controls:

WB: HeLa cells, HepG2 cells, PC-3 cells

IF/ICC: HepG2 cells,

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. BTBmediated SPOP dimers form linear oligomers via BACK domain dimerization, and we determine the concentrationdependent 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 ubiquitylation via the CUL-3/SPOP complex include PDX-1, Bmi-1, MacroH2A, PIPK II f 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Carley Snoznik	34593637	Proc Natl Acad Sci U S A	WB
Jianong Zhang	34588438	Nat Commun	WB
Lan Zhang	34586738	Clin Transl Med	WB,IHC,RIP

Storage

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

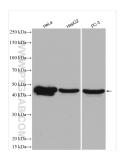
Aliquoting is unnecessary for -20°C storage

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

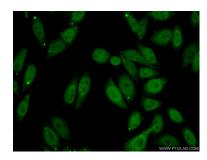
T: 4006900926 E: Proteintech-CN@ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

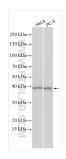
Selected Validation Data



Various lysates 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 Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 16750-1-AP (SPOP antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.