

For Research Use Only

SPOP Monoclonal antibody

Catalog Number: 68216-1-Ig



Basic Information

Catalog Number: 68216-1-Ig	GenBank Accession Number: BC003385	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 8405	CloneNo.: 2B9F2
Source: Mouse	Full Name: speckle-type POZ protein	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG1	Calculated MW: 374 aa, 42 kDa	
Immunogen Catalog Number: AG10384	Observed MW: 42 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : PC-3 cells, NCI-H1299 cells, U2OS cells, HCT-116 cells, HEK-293 cells, HeLa cells, K-562 cells, Jurkat cells, MOLT-4 cells
Species Specificity: Human	

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 (Mepirin 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 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.

Storage

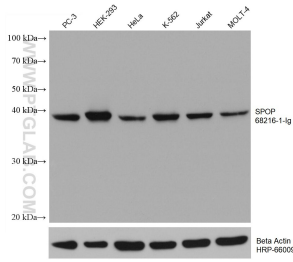
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

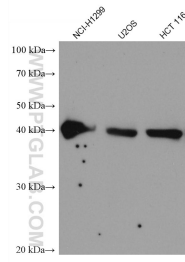
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68216-1-Ig (SPOP antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



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