

# SPOPL (S-16): sc-139558

## BACKGROUND

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. Belonging to the Tdpoz family, SPOPL contains one BTB (POZ) domain and one MATH domain. SPOPL forms a complex with a member of the cullin family. The gene that encodes SPOPL includes 71,768 bases, four transcripts and maps to the human chromosome 2q22.1. Chromosomal arm 2q22-23 has been identified as one of fifteen hot spots thought to be involved in head and neck squamous cell carcinoma (HNSCC). Chromosome 2, which consists of 237 million bases, encodes over 1,400 genes and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2 including Harlequin ichthyosis, sitosterolemia and Alström syndrome.

## REFERENCES

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4. Kelsell, D.P., et al. 2005. Mutations in ABCA12 underlie the severe congenital skin disease harlequin ichthyosis. *Am. J. Hum. Genet.* 76: 794-803.
5. Zhang, Q., et al. 2006. A hedgehog-induced BTB protein modulates hedgehog signaling by degrading Ci/Gli transcription factor. *Dev. Cell* 10: 719-729.
6. Kent, D., et al. 2006. Roadkill attenuates Hedgehog responses through degradation of cubitus interruptus. *Development* 133: 2001-2010.
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## CHROMOSOMAL LOCATION

Genetic locus: Spopl (mouse) mapping to 2 A3.

## SOURCE

SPOPL (S-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of SPOPL of mouse origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139558 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

SPOPL (S-16) is recommended for detection of SPOPL of mouse and rat origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with SPOP.

Suitable for use as control antibody for SPOPL siRNA (m): sc-153777, SPOPL shRNA Plasmid (m): sc-153777-SH and SPOPL shRNA (m) Lentiviral Particles: sc-153777-V.

Molecular Weight of SPOPL: 45 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## STORAGE

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

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.