BACKGROUND

TOPORS (topoisomerase I binding, arginine/serine-rich), also known as LUN, RP31, P53BP3 or TP53BL, is a 1,045 amino acid protein that contains one RING-type zinc finger and localizes to discrete nuclear foci. Expressed in a variety of tissues with highest expression in testis, TOPORS functions as a ubiquitin E3 ligase that, via its RING domain, can ubiquitinate proteins such as p53, thereby targeting them for proteasomal degradation. TOPORS expression can be induced by genotoxic agents (compounds that damage DNA), such as camptothecin and cisplatin, suggesting an important role for TOPORS in DNA damage repair pathways. In addition, TOPORS levels are decreased in lung and colon cancers, implicating TOPORS as a possible tumor suppressor. Defects in the gene encoding TOPORS are the cause of retinitis pigmentosa type 31 (RP31), a degenerative disease characterized by a loss of peripheral and, eventually, central vision.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: TOPORS (human) mapping to 9p21.1; Topors (mouse) mapping to 4 A5.

SOURCE

TOPORS (H-127) is a rabbit polyclonal antibody raised against amino acids 251-377 mapping within an internal region of TOPORS of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292009 X, 200 µg/0.1 ml.

APPLICATIONS

TOPORS (H-127) is recommended for detection of TOPORS of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).


TOPORS (H-127) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TOPORS: 119 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended:


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 or our catalog for detailed protocols and support products.