BACKGROUND
The transcriptional co-activator with PDZ-binding motif (TAZ) is a 14-3-3-binding molecule. The highly conserved and ubiquitously expressed 14-3-3 proteins regulate differentiation, cell cycle progression and apoptosis by binding intracellular phosphoproteins involved in signal transduction. TAZ may link events at the plasma membrane and cytoskeleton to nuclear transcription in a manner that can be regulated by 14-3-3. TAZ shares homology with the WW domain of Yes-associated protein (YAP) and functions as a transcriptional co-activator by binding to the PPXY motif present on transcription factors. TAZ recognizes immunoreactive protein bands in lysates from MDCK, NIH/3T3 and 293T cells. In addition, COS7, HepG2, CHO and HeLa cells express endogenous TAZ. 14-3-3 binding requires TAZ phosphorylation on a single Ser-89 residue, resulting in the inhibition of TAZ transcriptional co-activation through 14-3-3-mediated nuclear export.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: WWTR1 (human) mapping to 3q25.1; Wwtr1 (mouse) mapping to 3D.

SOURCE
p-TAZ (Ser 89)-R is a rabbit polyclonal antibody raised against a short amino acid sequence containing Ser-89 phosphorylated TAZ of human 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-17610 P (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS
p-TAZ (Ser 89)-R is recommended for detection of Ser 89 phosphorylated TAZ 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

p-TAZ (Ser 89)-R is also recommended for detection of correspondingly phosphorylated TAZ in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TAZ siRNA (h): sc-38568, TAZ siRNA (m): sc-38569, TAZ shRNA Plasmid (h): sc-38568-SH, TAZ shRNA Plasmid (m): sc-38568-SH, TAZ shRNA (h) Lentiviral Particles: sc-38568-V and TAZ shRNA (m) Lentiviral Particles: sc-38569-V.

Molecular Weight of p-TAZ: 45 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or NIH/3T3 whole cell lysate: sc-2210.

DATA

SELECT PRODUCT CITATIONS

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.