**BACKGROUND**

α-taxilin is a novel binding partner of the Syntaxin family which is implicated in intracellular vesicle trafficking. Through its C-terminal coiled-coil region, α-taxilin interacts with the nascent polypeptide-associated complex (NAC), which acts as a translational coactivator. Although α-taxilin binds to both the α and β NAC subunits, the main interaction is through α-NAC. Coexpression of α-taxilin with overexpressed α-NAC eliminates the nuclear distribution of α-NAC, originally distributed throughout the cytosol and nucleus. β- and γ-taxilins, additional members of the taxilin family, bind to α-NAC and affect its nuclear distribution, suggesting that the taxilin family is involved not only in the translational process through its interaction with NAC but also in the transcriptional process through its interaction with α-NAC alone.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: Txlna (mouse) mapping to 4 D2.2.

**SOURCE**

α-taxilin (A-6) is a mouse monoclonal antibody raised against amino acids 481-554 mapping at the C-terminus of α-taxilin of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

**STORAGE**

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

**APPLICATIONS**

α-taxilin (A-6) is recommended for detection of α-taxilin of mouse and rat origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for α-taxilin siRNA (m): sc-44830, α-taxilin shRNA Plasmid (m): sc-44830-SH and α-taxilin shRNA (m) Lentiviral Particles: sc-44830-V.

Molecular Weight (predicted) of α-taxilin: 72 kDa.

Molecular Weight (observed) of α-taxilin: 62 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, BW5147 cell lysate: sc-3800 or c4 whole cell lysate: sc-364186.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminal Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

**PROTOCOLS**

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