**BACKGROUND**

β-taxilin, also called MDP77, promotes nerve regeneration and may be involved in intracellular vesicle transport. Expressed predominantly in cardiac and skeletal muscle, β-taxilin binds to the coiled coil region of the syntaxin family members STX1A, STX3A and STX4A. β- and γ-taxilins, bind to the α subunit of the nascent polypeptide-associated complex (NAC) and affect its nuclear distribution, suggesting that the taxilin family is involved not only in the translational process through its interaction with αNAC but also in the transcriptional process through its interaction with αNAC alone.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: Txlnb (mouse) mapping to 10 A2.

**SOURCE**

β-taxilin (E-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 643-678 at the C-terminus of β-taxilin of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG1 lambda light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

β-taxilin (E-5) is available conjugated to agarose (sc-398059 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398059 HRP), 200 µg/ml, for WB, HCP and ELISA; to either phycoerythrin (sc-398059 PE), fluorescein (sc-398059 FITC), Alexa Fluor® 488 (sc-398059 AF488), Alexa Fluor® 546 (sc-398059 AF546), Alexa Fluor® 594 (sc-398059 AF594) or Alexa Fluor® 647 (sc-398059 AF647), 200 µg/ml, for WB (RGB), IF, HCP and FCM; and to either Alexa Fluor® 680 (sc-398059 AF680) or Alexa Fluor® 790 (sc-398059 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-398059 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

β-taxilin (E-5) is recommended for detection of β-taxilin of mouse and rat origin by Western Blotting (starting dilution 1:100, dilution range 1:1000-1:10000), 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 β-taxilin siRNA (m): sc-61653, β-taxilin shRNA Plasmid (m): sc-61653-SH and β-taxilin shRNA (m) Lentiviral Particles: sc-61653-V.

Molecular Weight of β-taxilin: 120 kDa.

Positive Controls: Sol8 cell lysate: sc-2249, Sol8 nuclear extract: sc-2157 or mouse skeletal muscle extract: sc-364250.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGλ BP-HRP: sc-516132 or m-IgGλ BP-HRP (Cruz Marker): sc-516132-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2030 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGλ BP-FITC: sc-516185 or m-IgGλ BP-PE: sc-516186 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**STORAGE**

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

**PROTOCOLS**

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

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