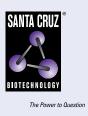
SANTA CRUZ BIOTECHNOLOGY, INC.

β-taxilin (A-5): sc-377287



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 <code>ANAC</code> alone.

REFERENCES

- Uyeda, A., et al. 2000. MDP77: a novel neurite-outgrowth-promoting protein predominantly expressed in chick muscles. Biochem. Biophys. Res. Commun. 269: 564-569.
- Fujimori, K.E., et al. 2002. Regulatory expression of MDP77 protein in the skeletal and cardiac muscles. FEBS Lett. 529: 303-308.
- Nogami, S., et al. 2003. Interaction of taxilin with syntaxin which does not form the SNARE complex. Biochem. Biophys. Res. Commun. 311: 797-802.
- Nogami, S., et al. 2003. Taxilin; a novel syntaxin-binding protein that is involved in Ca²⁺-dependent exocytosis in neuroendocrine cells. Genes Cells 8: 17-28.
- 5. Nogami, S., et al. 2004. Identification and characterization of taxilin isoforms. Biochem. Biophys. Res. Commun. 319: 936-943.
- Itoh, S., et al. 2004. Muscle-specific protein MDP77 specifically promotes motor nerve regeneration in rats. Neurosci. Lett. 360: 175-177.

CHROMOSOMAL LOCATION

Genetic locus: TXLNB (human) mapping to 6q24.1.

SOURCE

 β -taxilin (A-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 495-529 near the C-terminus of β -taxilin of human origin.

PRODUCT

Each vial contains 200 $\mu g\, lg G_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

β-taxilin (A-5) is available conjugated to agarose (sc-377287 AC), 500 μg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-377287 HRP), 200 μg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377287 PE), fluorescein (sc-377287 FITC), Alexa Fluor[®] 488 (sc-377287 AF488), Alexa Fluor[®] 546 (sc-377287 AF546), Alexa Fluor[®] 594 (sc-377287 AF594) or Alexa Fluor[®] 647 (sc-377287 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-377287 AF680) or Alexa Fluor[®] 790 (sc-377287 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-377287 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

 β -taxilin (A-5) is recommended for detection of β -taxilin of human 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 β -taxilin siRNA (h): sc-61651, β -taxilin shRNA Plasmid (h): sc-61651-SH and β -taxilin shRNA (h) Lentiviral Particles: sc-61651-V.

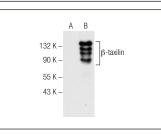
Molecular Weight of β-taxilin: 120 kDa.

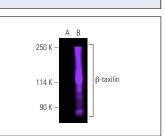
Positive Controls: β-taxilin (h3): 293T Lysate: sc-129920.

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 Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA





 β -taxilin (A-5): sc-377287. Western blot analysis of β -taxilin expression in non-transfected: sc-117752 (A) and human β -taxilin transfected: sc-129920 (B) 293T whole cell lysates.

 β -taxilin (A-5): sc-377287. Near-Infrared western blot analysis of β -taxilin expression in non-transfected: sc-117752 (**A**) and human β -taxilin transfected: sc-129920 (**B**) 2937 whole cell lysates. Blocked with UltraCruz[®] Blocking Reagent: sc-516214. Detection reagent used: m-IgGs RP-CET 293: sc-516181.

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 for detailed protocols and support products.

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