

α -taxilin (E-2): sc-271783



The Power to Question

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 transcriptional co-activator. 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.

CHROMOSOMAL LOCATION

Genetic locus: TXLNA (human) mapping to 1p35.1.

SOURCE

α -taxilin (E-2) is a mouse monoclonal antibody raised against amino acids 481-546 mapping at the C-terminus of α -taxilin of human origin.

PRODUCT

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

α -taxilin (E-2) is available conjugated to agarose (sc-271783 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271783 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271783 PE), fluorescein (sc-271783 FITC), Alexa Fluor[®] 488 (sc-271783 AF488), Alexa Fluor[®] 546 (sc-271783 AF546), Alexa Fluor[®] 594 (sc-271783 AF594) or Alexa Fluor[®] 647 (sc-271783 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-271783 AF680) or Alexa Fluor[®] 790 (sc-271783 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

α -taxilin (E-2) is recommended for detection of α -taxilin of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 (h): sc-39644, α -taxilin shRNA Plasmid (h): sc-39644-SH and α -taxilin shRNA (h) Lentiviral Particles: sc-39644-V.

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

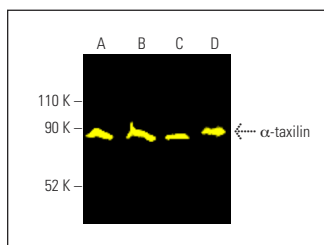
Molecular Weight (observed) of α -taxilin: 72 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, Jurkat whole cell lysate: sc-2204 or Caki-1 cell lysate: sc-2224.

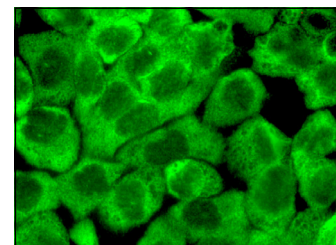
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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-IgG κ BP-FITC: sc-516140 or m-IgG κ 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



α -taxilin (E-2): sc-271783. Fluorescent western blot analysis of α -taxilin expression in K-562 (A), Jurkat (B), Hep G2 (C) and Caki-1 (D) whole cell lysates. Blocked with UltraCruz[®] Blocking Reagent: sc-516214. Detection reagent used: m-IgG₁ BP-CFL 488: sc-533661.



α -taxilin (E-2): sc-271783. Immunofluorescence staining of formalin-fixed A-431 cells showing cytoplasmic localization.

SELECT PRODUCT CITATIONS

- Sarkar, A., et al. 2020. Synovial fluid cell proteomic analysis identifies upregulation of α -taxilin proteins in rheumatoid arthritis: a potential prognostic marker. *J. Immunol. Res.* 2020: 4897983.
- Tian, X., et al. 2023. TXLNA enhances TBK1 phosphorylation by suppressing PPM1B recruitment. *Biochim. Biophys. Acta Mol. Cell Res.* 1870: 119550.

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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