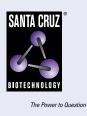
# SANTA CRUZ BIOTECHNOLOGY, INC.

# γ-taxilin (A-10): sc-393610



#### BACKGROUND

 $\gamma$ -taxilin (also called lipopolysaccharide-specific response protein 5) is ubiquitously expressed, with an especially high level of expression in heart and skeletal muscle.  $\gamma$ -taxilin displays known expression in brain, placenta, lung, liver, kidney and pancreas. Taxilin family members  $\beta$ - and  $\gamma$ -taxilin bind to the a 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 NAC alone.

#### REFERENCES

- 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 Ca<sup>2+</sup>-dependent exocytosis in neuroendocrine cells. Genes Cells 8: 17-28.
- Nogami, S., et al. 2004. Identification and characterization of taxilin isoforms. Biochem. Biophys. Res. Commun. 319: 936-943.
- Yoshida, K., et al. 2005. Interaction of the taxilin family with the nascent polypeptide-associated complex that is involved in the transcriptional and translational processes. Genes Cells 10: 465-476.
- Malyala, A., et al. 2005. Estrogen modulation of hypothalamic neurons: activation of multiple signaling pathways and gene expression changes. Steroids 70: 397-406.
- 6. Yu, V.W., et al. 2006. Inhibition of ATF4 transcriptional activity by FIAT/  $\gamma$ -taxilin modulates bone mass accrual. Ann. N.Y. Acad. Sci. 1068: 131-142.

# **CHROMOSOMAL LOCATION**

Genetic locus: TXLNG (human) mapping to Xp22.2.

## SOURCE

 $\gamma$ -taxilin (A-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 55-78 near the N-terminus of  $\gamma$ -taxilin of human origin.

## PRODUCT

Each vial contains 200  $\mu g$  IgG\_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-393610 P, (100  $\mu g$  peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

## **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**

 $\gamma$ -taxilin (A-10) is recommended for detection of  $\gamma$ -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), 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).

Suitable for use as control antibody for  $\gamma$ -taxilin siRNA (h): sc-61650,  $\gamma$ -taxilin shRNA Plasmid (h): sc-61650-SH and  $\gamma$ -taxilin shRNA (h) Lentiviral Particles: sc-61650-V.

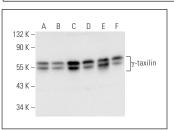
Molecular Weight of y-taxilin: 70 kDa.

Positive Controls: MCF7 nuclear extract: sc-2149, HeLa nuclear extract: sc-2120 or HeLa whole cell lysate: sc-2200.

# **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<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> 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<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

#### DATA



 $\gamma$ -taxilin (A-10): sc-393610. Western blot analysis of  $\gamma$ -taxilin expression in HeLa (A) and MCF7 (B) whole cell lysates and HeLa (C), MCF7 (D), SW480 (E) and A-431 (F) nuclear extracts.

Y-taxiini (A-10): Sc-333010. Immunoritorescence staining of methanol-fixed Hep G2 cells showing nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta tissue showing nuclear and cytoplasmic staining of trophoblastic cells (B).

## SELECT PRODUCT CITATIONS

 Hotokezaka, Y., et al. 2020. ATM-associated signalling triggers the unfolded protein response and cell death in response to stress. Commun. Biol. 3: 378.

# **PROTOCOLS**

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