# GIPC (m2): 293T Lysate: sc-110252



The Power to Question

## **BACKGROUND**

GIPC, for GAIP interacting protein at the C-terminus (also designated SEMCAP-1 or synectin), is a PDZ domain containing protein that interacts with RGS-GAIP, a GTPase-activating protein (GAP) for  $G_{\alpha\,i}$  subunits. GIPC was also identified as TIP-2, a protein that interacts with the viral oncoprotein TAX, which transactivates viral and cellular promoters through interactions with various transcription factors. PDZ domain-containing proteins are primarily localized to cell-cell junctions in epithelial cells and neurons where they coordinate the assembly of multiprotein complexes. GIPC specifically localizes to clusters of vesicles near the plasma membrane and participates in G protein-coupled signaling pathway involved in regulating Clathrin-coated vesicular trafficking. GIPC also associates with membrane bound Semaphorin F (M-SemF), which is involved in neuronal axon growth, and it appears to regulate the subcellular distribution of M-SemF in the brain.

# **REFERENCES**

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- Cai, H. and Reed, R.R. 1999. Cloning and characterization of neuropilin-1interacting protein: a PSD-95/Dlg/Z0-1 domain-containing protein that interacts with the cytoplasmic domain of neuropilin-1. J. Neurosci. 19: 6519-6527.
- Wang, L.H., Kalb, R.G. and Strittmatter, S.M. 1999. A PDZ protein regulates the distribution of the transmembrane semaphorin, M-SemF. J. Biol. Chem. 274: 14137-14146.

#### CHROMOSOMAL LOCATION

Genetic locus: Gipc1 (mouse) mapping to 8 C2.

## **PRODUCT**

GIPC (m2): 293T Lysate represents a lysate of mouse GIPC transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## **APPLICATIONS**

GIPC (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive GIPC antibodies. Recommended use: 10-20 µl per lane.

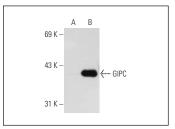
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

GIPC (C-9): sc-166148 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse GIPC expression in GIPC transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## **DATA**



GIPC (C-9): sc-166148. Western blot analysis of GIPC expression in non-transfected: sc-117752 (A) and mouse GIPC transfected: sc-110252 (B) 293T whole rell lysates

#### **STORAGE**

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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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