# X11γ (m): 293T Lysate: sc-124660



The Power to Question

### **BACKGROUND**

The  $\beta$ -amyloid precursor protein ( $\beta$ -APP) is a major constituent of the amyloid deposits in patients with Alzheimer's disease. The  $\beta$ -amyloid precursor is known to interact with several proteins, including X11 and the G heterotrimetric protein APP-BP1. The neuronal, transmembrane protein X11 is known to bind to the  $\beta$ -amyloid precursor protein via a phosphotyrosine binding (PTB) domain, reducing the secretion of cellular  $\beta$ -APP and slowing  $\beta$ -APP processing pathways. X11 binds specifically to the YENPTY motif, which is involved in the internalization of  $\beta$ -APP. Multiple splice varitents of X11 have been identified, including X11 $\alpha$  (also designated Mint 1), X11 $\beta$  (Mint 2) and X11 $\gamma$  (Mint 3).

### **REFERENCES**

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- Okamoto, M., et al. 1997. Mints, Munc18-interacting proteins in synaptic vesicle exocytosis. J. Biol. Chem. 272: 31459-31464.
- Zhang, Z., et al. 1997. Sequence-specific recognition of the internalization motif of the Alzheimer's amyloid precursor protein by the X11 PTB domain. EMBO J. 16: 6141-6150.
- 4. Russo, T., et al. 1998. Fe65 and the protein network centered around the cytosolic domain of the Alzheimer's  $\beta$ -amyloid precursor protein. FEBS Lett. 434: 1-7.
- 5. Borg, J.P., et al. 1998. The X11 $\alpha$  protein slows cellular amyloid precursor protein processing and reduces A $\beta$ 40 and A $\beta$ 42 secretion. J. Biol. Chem. 273: 14761-14766.
- Sastre, M., et al. 1998. X11 interaction with β-amyloid precursor protein modulates its cellular stabilization and reduces amyloid β-protein secretion. J. Biol. Chem. 273: 22351-22357.

# **CHROMOSOMAL LOCATION**

Genetic locus: Apba3 (mouse) mapping to 10 C1.

# **PRODUCT**

X11 $\gamma$  (m): 293T Lysate represents a lysate of mouse X11 $\gamma$  transfected 293T cells and is provided as 100 μg protein in 200 μl SDS-PAGE buffer.

## **APPLICATIONS**

X11 $\gamma$  (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive X11 $\gamma$  antibodies. Recommended use: 10-20  $\mu$ l per lane.

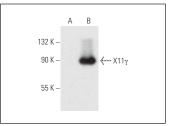
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

X11 $\gamma$  (A-2): sc-271422 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse X11 $\gamma$  expression in X11 $\gamma$  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**



X11γ (A-2): sc-271422. Western blot analysis of X11γ expression in non-transfected: sc-117752 (**A**) and mouse X11γ transfected: sc-124660 (**B**) 293T whole cell 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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