# SNX16 (h): 293T Lysate: sc-115169



The Power to Question

### **BACKGROUND**

Sorting nexin proteins (SNX) are members of a large family of hydrophilic proteins that interact with a variety of receptor types, contain a characteristic phox homology (PX) domain and play a role in intracellular trafficking. Viral infection by a nucleocapsid is initiated when it is transported to late endosomes and, ultimately, to the cytoplasm. This process depends on the late endosomal lipid lysobisphosphatidic acid (LBPA) and its putative effector Alix/AlP1, and is regulated by Ptdlns3P (phosphatidylinositol-3-phosphate) signaling via SNX16, its binding protein. Overexpression of SNX16 increases the rate of EGF-induced EGFR degradation and prevents EGF-induced upmodulation of ERK and serum response element (SRE). Mutation in the PX domain eradicates the inhibitory effect of SNX16 on EGF-induced activation of ERK and SRE, suggesting that SNX16 directs the sorting of EGFR to the endosomal compartment, thus regulating EGF-induced cell signaling.

#### **REFERENCES**

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## **CHROMOSOMAL LOCATION**

Genetic locus: SNX16 (human) mapping to 8q21.13.

## **PRODUCT**

SNX16 (h): 293T Lysate represents a lysate of human SNX16 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## **RESEARCH USE**

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

## **APPLICATIONS**

SNX16 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive SNX16 antibodies. Recommended use: 10-20 µl per lane.

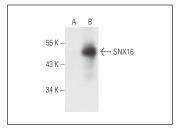
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

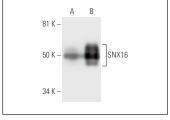
SNX16 (C-11): sc-271260 is recommended as a positive control antibody for Western Blot analysis of enhanced human SNX16 expression in SNX16 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

### **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





SNX16 (C-11): sc-271260. Western blot analysis of SNX16 expression in non-transfected: sc-117752 (**A**) and human SNX16 transfected: sc-115169 (**B**) 293T whole cell Ivsates.

SNX16 (B-4): sc-390523. Western blot analysis of SNX16 expression in non-transfected: sc-117752 (A) and human SNX16 transfected: sc-115169 (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.

## **PROTOCOLS**

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