



## RGS11 (m): 293T Lysate: sc-123098

### BACKGROUND

Heterotrimeric G proteins function to relay information from cell surface receptors to various intracellular effectors. G proteins comprise  $\alpha$ ,  $\beta$  and  $\gamma$  subunits, and following activation the  $\alpha$  subunit binds GTP and dissociates from the  $\beta\gamma$  complex. A large group of proteins have been identified as GTPase-activating proteins (GAPs), including the RGS (regulator of G protein signaling) family, which serve to deactivate specific  $G_{\alpha}$  isoforms by increasing the rate at which they convert GTP to GDP. A subfamily of RGS proteins expressed in the central nervous system contain, in addition to the highly conserved RGS domain, a characteristic GGL domain, or G protein  $\gamma$  subunit-like domain, which mediates binding to  $G_{\beta 5}$  subunits. This subfamily, which includes RGS6, RGS7, RGS9 and RGS11, associates with  $G_{\beta 5}$  to form active GAP complexes that are predominantly localized to the cytosol. RGS/ $\beta 5$  complexes preferentially target  $G_{\alpha o}$  subunit for hydrolysis and inhibit  $G_{\beta 1\gamma 2}$ -mediated activation of phospholipase C.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: Rgs11 (mouse) mapping to 17 A3.3.

### PRODUCT

RGS11 (m): 293T Lysate represents a lysate of mouse RGS11 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

RGS11 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive RGS11 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.

### 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](http://www.scbt.com) for detailed protocols and support products.