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RGS5 (m2): 293T Lysate: sc-123108

BACKGROUND

Regulators of G-protein signaling (RGS proteins) are a family of highly diverse, multifunctional signaling proteins that share a conserved 120 amino acid domain (RGS domain). RGS domains bind directly to activated G_{α} subunits and act as GTPase-activating proteins (GAPs) to attenuate and/or modulate hormone and neurotransmitter receptor-initiated signaling by both G_{α} -GTP and $G_{\beta\gamma}$ -RGS proteins shorten the lifetime of activated G proteins. Vascular endothelial cells express the RGS protein RGS5, where it correlates with capillary morphogenesis, thus rendering it a candidate gene involved in capillary growth, angiogenesis, and also potentially the pathophysiology of stroke.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Rgs5* (mouse) mapping to 1 H2.

PRODUCT

RGS5 (m2): 293T Lysate represents a lysate of mouse RGS5 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

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.

APPLICATIONS

RGS5 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive RGS5 antibodies. Recommended use: 10-20 μ l per lane.

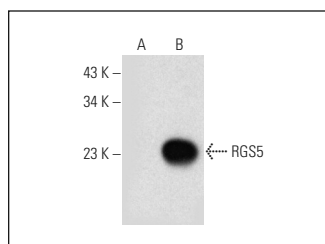
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RGS5 (B-4): sc-514184 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse RGS5 expression in RGS5 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-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



RGS5 (B-4): sc-514184. Western blot analysis of RGS5 expression in non-transfected: sc-117752 (A) and mouse RGS5 transfected: sc-123108 (B) 293T whole cell lysates.

RESEARCH USE

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