

ERGIC-3 (m): 293T Lysate: sc-126805

BACKGROUND

Cycling proteins play important roles in the organization and function of the early secretory pathway by participating in membrane traffic and selective transport of cargo between the endoplasmic reticulum (ER), the intermediate compartment (ERGIC) and the Golgi. A family of membrane bound, ubiquitous proteins involved in the selective transport of newly synthesized glycoproteins from the ER to the ERGIC include VIP36, ERGIC-53, ERGIC-1, ERGIC-2 and ERGIC-3. ERGIC-1, also designated ERGIC32, is thought to modulate the activity of a complex formed by ERGIC-2 (also designated Erv41) and ERGIC-3 (also designated Erv46). ERGIC-2 and ERGIC-3 are both mammalian homologs of yeast proteins abundant in COPII-coated vesicles and localize to the *cis*-face of the Golgi apparatus.

REFERENCES

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- Appenzeller-Herzog, C. and Hauri, H.P. 2006. The ER-Golgi intermediate compartment (ERGIC): in search of its identity and function. *J. Cell Sci.* 119: 2173-2183.
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CHROMOSOMAL LOCATION

Genetic locus: *Ergic3* (mouse) mapping to 2 H1.

PRODUCT

ERGIC-3 (m): 293T Lysate represents a lysate of mouse ERGIC-3 transfected 293T cells and is provided as 100 µg protein in 200 µl 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

ERGIC-3 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ERGIC-3 antibodies. Recommended use: 10-20 µl per lane.

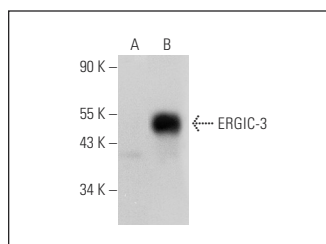
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ERGIC-3 (E-3): sc-514611 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse ERGIC-3 expression in ERGIC-3 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-IgGκ BP-HRP: sc-516102 or m-IgGκ 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



ERGIC-3 (E-3): sc-514611. Western blot analysis of ERGIC-3 expression in non-transfected: sc-117752 (A) and mouse ERGIC-3 transfected: sc-126805 (B) 293T whole cell lysates.

RESEARCH USE

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