

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

SANTA CRUZ BIOTECHNOLOGY, INC.

Ly-GDI (m): 293T Lysate: sc-121444



BACKGROUND

The Ras superfamily of small GTP-binding proteins are critical mediators of diverse cell signaling pathways, including those leading to proliferation, cytoskeletal organization and secretion. The counter-conversion of the active GTP-bound form of these proteins to their inactive GDP-bound form is influenced by two types of regulatory proteins: those that alter the intrinsic GTPase activity of the GTP-binding proteins and those that alter the rate of GDP/GTP exchange. Guanine nucleotide-releasing factors (GRFs) increase the GDP dissociation rate, while GDP-dissociation inhibitors (GDIs) decrease the dissociation rate. The Rho GDI subfamily is composed of Rho GDI α , Ly-GDI (also known as Rho GDI β and previously known as GDI/D4) and Rho GDI γ . The Rho GDI proteins interact with and have varying affinities for several Ras-like GTP-binding proteins, including Rho A, Rho B, Rac and Cdc42. Ly-GDI is expressed only in hematopoietic cells, predominantly in B and T lymphocyte cell lines.

REFERENCES

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- 4. Garrett, M.D., et al. 1991. Purification and N-terminal sequence of the p21 Rho GTPase-activating protein, Rho GAP. Biochem. J. 276: 833-836.
- 5. Scherle, P., et al. 1993. Ly-GDI, a GDP-dissociation inhibitor of the Rho A GTP-binding protein, is expressed preferentially in lymphocytes. Proc. Natl. Acad. Sci. USA 90: 7568-7572.
- Platko, J.V., et al. 1995. A single residue can modify target-binding affinity and activity of the functional domain of the Rho-subfamily GDP dissociation inhibitors. Proc. Natl. Acad. Sci. USA 92: 2974-2978.
- 7. Adra, C.N., et al. 1997. Rho GDI γ : a GDP-dissociation inhibitor for Rho protiens with preferential expression in brain and pancreas. Proc. Natl. Acad. Sci. USA 94: 4279-4284.
- 8. Dirac-Svejstrup, A.B., et al. 1997. Identification of a GDI displacement factor that releases endosomal Rab GTPases from Rab-GDI. EMBO J. 16: 465-472.

CHROMOSOMAL LOCATION

Genetic locus: Arhgdib (mouse) mapping to 6 G1.

PRODUCT

Ly-GDI (m): 293T Lysate represents a lysate of mouse Ly-GDI 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.

APPLICATIONS

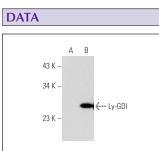
Ly-GDI (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Ly-GDI antibodies. Recommended use: $10-20 \ \mu$ l per lane.

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

Ly-GDI (D-7): sc-271108 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Ly-GDI expression in Ly-GDI 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-lgGκ BP-HRP: sc-516102 or m-lgGκ 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.



Ly-GDI (D-7): sc-271108. Western blot analysis of Ly-GDI expression in non-transfected: sc-117752 (**A**) and mouse Ly-GDI transfected: sc-121444 (**B**) 293T whole cell lysates

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.