SANTA CRUZ BIOTECHNOLOGY, INC.

cleaved Ly-GDI (97A1015): sc-52936



BACKGROUND

The Ras superfamily of small GTP-binding proteins are critical mediators of diverse cell signaling pathways, including those leading to proliferation, cyto-skeletal 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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- 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 (human) mapping to 12p12.3.

SOURCE

cleaved Ly-GDI (97A1015) is a mouse monoclonal antibody raised against synthetic Ly-GDI corresponding to amino acid residue(s) in the Fas-induced cleavage site of human origin.

PRODUCT

Each vial contains 100 $\mu g~lg G_1$ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

cleaved Ly-GDI (97A1015) is recommended for detection of cleaved Ly-GDI of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and flow cytometry (1 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for Ly-GDI siRNA (h): sc-35826, Ly-GDI shRNA Plasmid (h): sc-35826-SH and Ly-GDI shRNA (h) Lentiviral Particles: sc-35826-V.

Molecular Weight of cleaved Ly-GDI: 27 kDa.

Positive Controls: U-937 cell lysate: sc-2239, Ramos cell lysate: sc-2216 or BJAB whole cell lysate: sc-2207.

DATA



cleaved Ly-GDI (97A1015): sc-52936. Western blot analysis of cleaved Ly-GDI expression in human PBL (A), U-937 (B), Ramos (C), BJAB (D), Jurkat (E) and NAMALWA (F) whole cell lysates.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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.