SANTA CRUZ BIOTECHNOLOGY, INC.

Ly-GDI (1-201): sc-4351 WB

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 GDIa, Rho GDIb (previously known as GDI/D4) and Rho GDIg. 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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SOURCE

Ly-GDI (1-201) is expressed in *E. coli* as a 49 kDa tagged fusion protein corresponding to amino acids 1-201 representing full length Ly-GDI of human origin.

PRODUCT

Ly-GDI (1-201) is purified from bacterial lysates (>98%) by column chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

Ly-GDI (1-201) is suitable as a Western blotting control for sc-6047 and sc-11359.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

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