



Qty: 100 µg/400 µl

Rabbit anti-Rho-GDI-α

Catalog No. 51-1000Z

Lot No. See product label

Rabbit anti-Rho-GDI-α

FORM

This polyclonal antibody is supplied as a 400 µl aliquot at 0.25 mg/ml in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. The antibody is epitope-affinity-purified from rabbit antiserum.

POLYCLONAL ANTIBODY DESIGNATION (PAD): NGA-25

IMMUNOGEN

A 25 amino acid synthetic peptide derived from the N-terminus of the human Rho-GDIα protein. This sequence is identical to the bovine sequence.

SPECIFICITY

This antibody is specific for the Rho-GDIα protein and does not cross react with the related D4-GDI (Rho-GDIβ) or Rho-GDIγ proteins.

REACTIVITY

Confirmed species reactivity includes human and mouse. Reactivity with bovine Rho-GDIα is expected based on sequence homology. Reactivity of the antibody with other species has not been evaluated.

Sample	ELISA	Immuno-precipitation (native)	Western Blotting*
Human		+	+
Mouse		+	+
Immunogen	+		

*Tested with HeLa (human) and NIH 3T3 (mouse) lysates

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.1-1.0 µg/ml
Immunoprecipitation: 5-10 µg/IP reaction
Western Blotting: 1-3 µg/ml

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long term storage. Avoid repeated freezing and thawing.

(cont'd)

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BACKGROUND

Rho proteins constitute a family of small Ras-like G proteins involved in ras-mediated transformation, actin cytoskeletal organization and other cellular processes. Rho-GDI α (also referred to as Rho-GDI 1 and Rho-GDI) is a guanine nucleotide dissociation inhibitor that regulates GDP/GTP exchange from Rho proteins by preventing the dissociation of GDP and controlling their interaction with membranes, maintaining Rho proteins in their GDP-bound form.

REFERENCES

1. Leffers, H. et al., *Exp. Cell. Res.* 209:165-174 (1993)
2. Tanaka, K., et al., *Methods Enzymol* 256:41-49 (1995)
3. Keep, N.H. et al., *Structure* 5:623-633 (1997)

RELATED PRODUCTS

Product	Clone/PAD*	Catalog No.
Rb x Rab 1A/1B	poly	71-5100
Rb x Rab 1B	poly	71-0400
Rb x Rab 3A	poly	71-5200
Rb x Rab 11	poly	71-5300
Ms x RanGAP	19C7	33-0800
Rb x CDC42Hs	Z-PT42	71-0700
Ms x v-H-Ras	Y13-259	33-7200
Rb x GDI	poly	71-0300

*PAD-Polyclonal Antibody Designation

Product	Conjugate	Cat. No.
Goat anti-Rabbit IgG (H+L) (ZyMAX™ Grade)	Purified	81-6100
	FITC	81-6111
	TRITC	81-6114
	Cy™3	81-6115
	Cy™5	81-6116
	HRP	81-6120
	AP	81-6122
	Biotin	81-6140

Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

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