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# ARHGDIB Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13743b

## Product Information

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| **Application** | WB, IHC-P, E |
| **Primary Accession** | P52566 |
| **Other Accession** | NP_001166.3 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat, Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB33730 |
| **Calculated MW** | 22988 |
| **Antigen Region** | 160-188 |

## Additional Information

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| **Gene ID** | 397 |
| **Other Names** | Rho GDP-dissociation inhibitor 2, Rho GDI 2, Ly-GDI, Rho-GDI beta, ARHGDIB, GDIA2, GDID4, RAP1GN1 |
| **Target/Specificity** | This ARHGDIB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 160-188 amino acids from the C-terminal region of human ARHGDIB. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | ARHGDIB Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | ARHGDIB |
| **Synonyms** | GDIA2, GDID4, RAP1GN1 |

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| **Function** | Regulates the GDP/GTP exchange reaction of the Rho proteins by inhibiting the dissociation of GDP from them, and the subsequent binding of GTP to them (PubMed:7512369, PubMed:8356058). Regulates reorganization of the actin cytoskeleton mediated by Rho family members (PubMed:8262133). |
| **Cellular Location** | Cytoplasm, cytosol. |
| **Tissue Location** | Detected in bone marrow, thymus and spleen. |

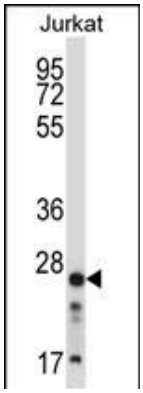
## Background

Members of the Rho (or ARH) protein family (see MIM 165390) and other Ras-related small GTP-binding proteins (see MIM 179520) are involved in diverse cellular events, including cell signaling, proliferation, cytoskeletal organization, and secretion. The GTP-binding proteins are active only in the GTP-bound state. At least 3 classes of proteins tightly regulate cycling between the GTP-bound and GDP-bound states: GTPase-activating proteins (GAPs), guanine nucleotide-releasing factors (GRFs), and GDP-dissociation inhibitors (GDIs). The GDIs, including ARHGDIB, decrease the rate of GDP dissociation from Ras-like GTPases (summary by Scherle et al., 1993 [PubMed 8356058]).

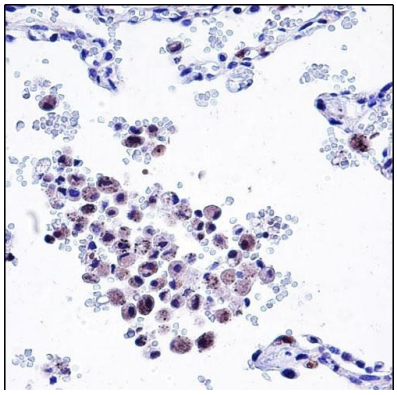
## References


Niu, H., et al. Oncol. Rep. 24(2):465-471(2010)
Zhen, H., et al. Int. J. Gynecol. Cancer 20(3):316-322(2010)
Guey, L.T., et al. Eur. Urol. 57(2):283-292(2010)
Said, N., et al. Cancer Metastasis Rev. 28 (3-4), 327-333 (2009) :
Hosgood, H.D. III, et al. Respir Med 103(12):1866-1870(2009)


## Images




ARHGDIB Antibody (C-term) (Cat. #AP13743b) western blot analysis in Jurkat cell line lysates (35ug/lane).This demonstrates the ARHGDIB antibody detected the ARHGDIB protein (arrow).



ARHGDIB Antibody (C-term) (Cat. #AP13743b)immunohistochemistry analysis in formalin fixed and paraffin embedded human lung tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ARHGDIB Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

## Citations

- RhoGDIβ Inhibits BMP4-induced Adipocyte Lineage Commitment and Favors Smooth Muscle-like Cell Differentiation.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.