10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ARHGDIB Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13743b

Product Information

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

Additional Information

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

Name	ARHGDIB
Synonyms	GDIA2, GDID4, RAP1GN1
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.

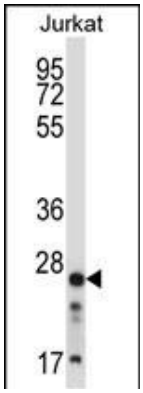
Background

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]).

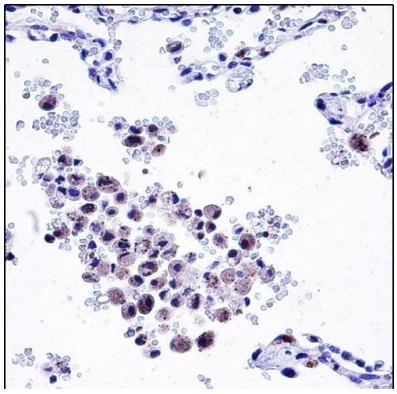
References

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.