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RHOJ Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11763c

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9H4E5
Other Accession	Q9ER71, NP_065714.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31757
Calculated MW	23821
Antigen Region	131-159

Additional Information

Gene ID	57381
Other Names	Rho-related GTP-binding protein RhoJ, Ras-like protein family member 7B, Tc10-like GTP-binding protein, RHOJ, ARHJ, RASL7B, RHOI, TCL
Target/Specificity	This RHOJ antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 131-159 amino acids from the Central region of human RHOJ.
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	RHOJ Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RHOJ
Function	Plasma membrane-associated small GTPase specifically involved in angiogenesis (PubMed:21628409, PubMed:24434213, PubMed:30158707).

	Required for endothelial cell migration during vascular development via its interaction with GLUL (PubMed:30158707). Elicits the formation of F-actin-rich structures, thereby regulating endothelial cell migration (PubMed:30158707).
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side Note=Localization to the plasma membrane is regulated by GLUL
Tissue Location	Specifically expressed in endothelial cells in different tissues, such as brain, heart, lung and liver

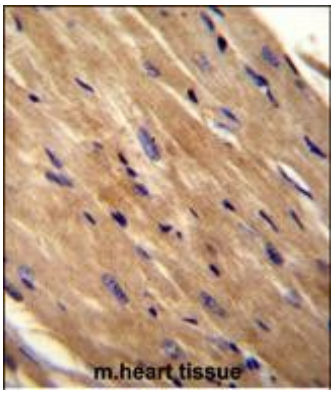
Background

ARHJ belongs to the Rho family of small GTP-binding proteins. Rho proteins regulate the dynamic assembly of cytoskeletal components for several physiologic processes, such as cell proliferation and motility and the establishment of cell polarity. They are also involved in pathophysiologic process, such as cell transformation and metastasis.

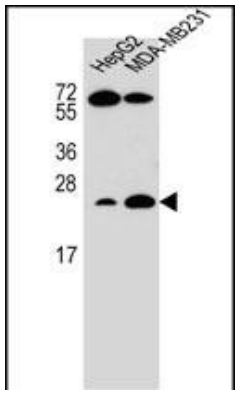
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Barrios-Rodiles, M., et al. Science 307(5715):1621-1625(2005)
Nishikimi, A., et al. FEBS Lett. 579(5):1039-1046(2005)
Ruusala, A., et al. FEBS Lett. 572 (1-3), 159-166 (2004) :

Images



RHOJ Antibody (Center) (Cat. #AP11763c)immunohistochemistry analysis in formalin fixed and paraffin embedded mouse heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RHOJ Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



RHOJ Antibody (Center) (Cat. #AP11763c) western blot analysis in HepG2,MDA-MB231 cell line lysates (35ug/lane).This demonstrates the RHOJ antibody detected the RHOJ protein (arrow).