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

Arhgef9 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2713c

Product Information

Application	IHC-P, WB, E
Primary Accession	Q9QX73
Other Accession	Q3UTH8, O43307, Q58DL7
Reactivity	Rat
Predicted	Bovine, Mouse, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB9122
Calculated MW	58157
Antigen Region	274-303

Additional Information

Gene ID	66013
Other Names	Rho guanine nucleotide exchange factor 9, Collybistin, Rac/Cdc42 guanine nucleotide exchange factor 9, Arhgef9
Target/Specificity	This Arhgef9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 274-303 amino acids from the Central region of human Arhgef9.
Dilution	IHC-P~~1:100~500 WB~~1:1000 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	Arhgef9 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Arhgef9
Function	Acts as a guanine nucleotide exchange factor (GEF) for CDC42. Promotes formation of GPHN clusters.

Cellular Location	Cytoplasm. Postsynaptic density {ECO:0000250|UniProtKB:Q3UTH8}
Tissue Location	Detected in brain, throughout the gray matter. Detected at low levels in heart and skeletal muscle

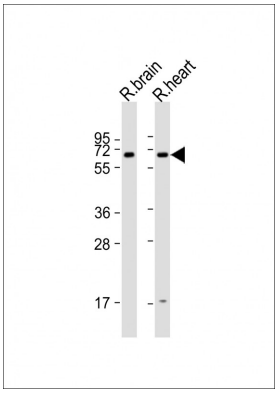
Background

ARHGEF9 belongs to a family of Rho-like GTPases that act as molecular switches by cycling from the active GTP-bound state to the inactive GDP-bound state. These proteins are key regulators of the actin cytoskeleton and are involved in cell signaling.

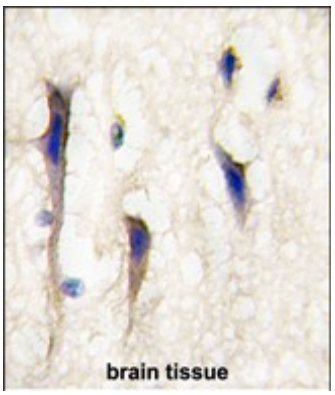
References

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Harvey,K., J. Neurosci. 24 (25), 5816-5826 (2004)
Grosskreutz,Y., Biol. Chem. 382 (10), 1455-1462 (2001)
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Images



All lanes : Anti-Collybistin(Arhgef9) (Center) at 1:1000 dilution Lane 1: rat brain lysate Lane 2: rat heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 58 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human brain tissue reacted with Arhgef9 Antibody (Center) (Cat.#AP2713c), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

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