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

ARHE Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7751c

Product Information

Application	WB, IHC-P, E
Primary Accession	P61587
Other Accession	Q6SA80, O77683, P61588
Reactivity	Human, Rat, Mouse
Predicted	Rat, Pig, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14500
Calculated MW	27368
Antigen Region	133-165

Additional Information

Gene ID	390
Other Names	Rho-related GTP-binding protein RhoE, Protein MemB, Rho family GTPase 3, Rho-related GTP-binding protein Rho8, Rnd3, RND3, ARHE, RHO8, RHOE
Target/Specificity	This ARHE antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 133-165 amino acids from the Central region of human ARHE.
Dilution	WB~~1:2000 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 prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	ARHE Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RND3
Synonyms	ARHE, RHO8, RHOE

Function	Binds GTP but lacks intrinsic GTPase activity and is resistant to Rho-specific GTPase-activating proteins.
Cellular Location	Golgi apparatus membrane; Peripheral membrane protein
Tissue Location	Ubiquitous.

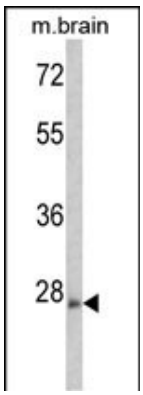
Background

Members of the Rho family of Ras-related GTPases, such as ARHE, regulate the organization of the actin cytoskeleton in response to extracellular growth factors. Like Ras (MIM 190020), Rho family members appear to cycle between an inactive GDP-bound form and an active GTP-bound form. Three major regulators of Rho activity have been identified: RhoGDIs, which interact with the GDP-bound Rho proteins to keep them in a resting complex (see MIM 601925); GEFs, which promote GDP/GTP exchange leading to activation of Rho proteins (see MIM 601855); and GAPs, which stimulate GTP hydrolysis and return the activated Rho protein to its inactive form (see MIM 602680) (Nobes et al., 1998 [PubMed 9531558]).

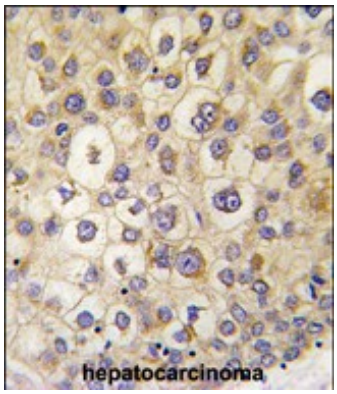
References

Pinner,S., Nat. Cell Biol. 10 (2), 127-137 (2008)
Poch,E., Exp. Cell Res. 313 (4), 719-731 (2007)
Ongusaha,P.P., Curr. Biol. 16 (24), 2466-2472 (2006)

Images



Western blot analysis of ARHE Antibody (Center)(Cat. 3AP7751c) in mouse brain tissue lysates (35ug/lane). ARHE (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with ARHE antibody (Center) (Cat.#AP7751c), 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'.