

ARHE Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7751c

Product Information

Application WB, IHC-P, E **Primary Accession** P61587

Other AccessionQ6SA80, O77683, P61588ReactivityHuman, Rat, Mouse

Predicted Rat, Pig
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.

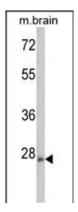
Background

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]).

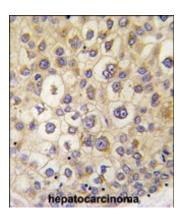
References

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'.