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ARHE Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7751c

Specification

ARHE Antibody (Center) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	P61587
Other Accession	Q6SA80, O77683, P61588
Reactivity	**Human, Mouse, Rat**
Predicted	**Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**133-165**

ARHE Antibody (Center) - 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
IHC-P~~1:10~50
WB~~1:2000
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.

ARHE Antibody (Center) - 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

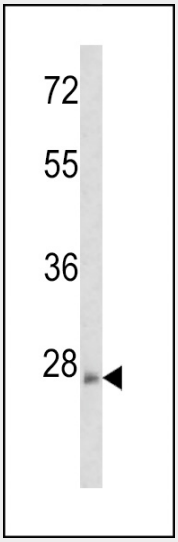
Tissue Location
Ubiquitous.

ARHE Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ARHE Antibody (Center) - 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.

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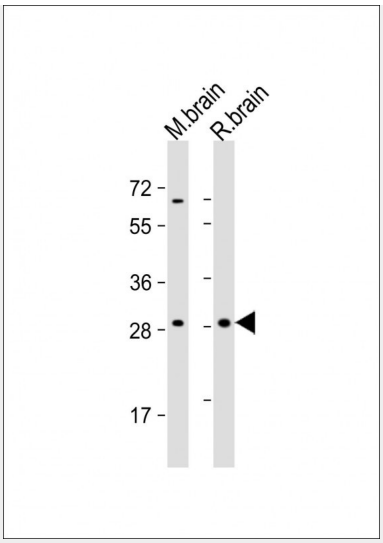
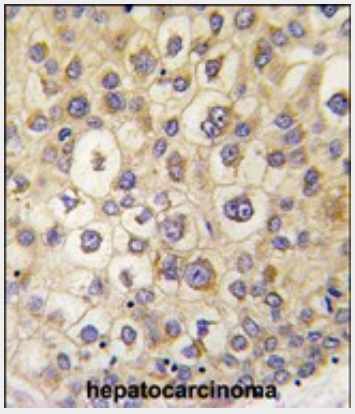


All lanes : Anti-ARHE Antibody (Center) at 1:2000 dilution Lane 1: mouse brain lysate Lane 2: rat brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 27 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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.

ARHE Antibody (Center) - 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]).

ARHE Antibody (Center) - 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)