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ARHE Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7751c

Specification

ARHE Antibody (Center) Blocking Peptide - Product Information

Primary Accession P61587

ARHE Antibody (Center) Blocking Peptide - 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
The synthetic peptide sequence used to generate the antibody AP7751c was selected from the Center region of human ARHE. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ARHE Antibody (Center) Blocking Peptide - 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.

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ARHE Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

ARHE Antibody (Center) Blocking Peptide - Images

ARHE Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)