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WRCH1 Rabbit pAb

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Catalog # AP57526

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q7L0Q8
Reactivity	Mouse, Rat
Predicted	Human, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28218
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human WRCH-1
Epitope Specificity	151-258/258
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus membrane; Lipid-anchor. Cell junction, focal adhesion. Cell projection, podosome. Note=Localizes to podosomes in SRC-transformed cells.
SIMILARITY	Belongs to the small GTPase superfamily. Rho family.
SUBUNIT	Interacts with PAK3.
Post-translational modifications	Tyrosine phosphorylated by SRC in response to PTK2B/PYK2 activation.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The WRCH1 protein is a member of the Rho family of GTPases. This protein can activate PAK1 and JNK1, and can induce filopodium formation and stress fiber dissolution. It may also mediate the effects of WNT1 signaling in the regulation of cell morphology, cytoskeletal organization, and cell proliferation.

Additional Information

Gene ID	58480
Other Names	Rho-related GTP-binding protein RhoU, CDC42-like GTPase 1, GTP-binding protein-like 1, Rho GTPase-like protein ARHU, Ryu GTPase, Wnt-1 responsive Cdc42 homolog 1, WRCH-1, RHOU (HGNC:17794)
Target/Specificity	Ubiquitously expressed in all tissues examined. Expressed at high levels in the stomach, small intestine, brain, skeletal muscle and placenta.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name

RHOU (HGNC:17794)

Function

Binds to and activates protein kinase PAK1 (PubMed: 11459829). Plays a role in the regulation of cell morphology, cytoskeletal organization and focal adhesion assembly during cell migration (PubMed:11459829, PubMed:17620058, PubMed:18086875, PubMed:21834987). Also stimulates quiescent cells to reenter the cell cycle (PubMed:11459829). Has no detectable GTPase activity but its high intrinsic guanine nucleotide exchange activity suggests it is constitutively GTP-bound (PubMed:16472646).

Cellular Location

Cell membrane; Lipid-anchor; Cytoplasmic side. Golgi apparatus membrane; Lipid-anchor. Cell junction, focal adhesion. Cell projection, podosome Note=Localizes to podosomes in SRC-transformed cells

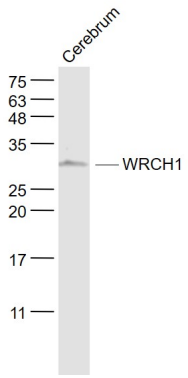
Tissue Location

Ubiquitously expressed in all tissues examined. Expressed at high levels in the stomach, small intestine, brain, skeletal muscle and placenta.

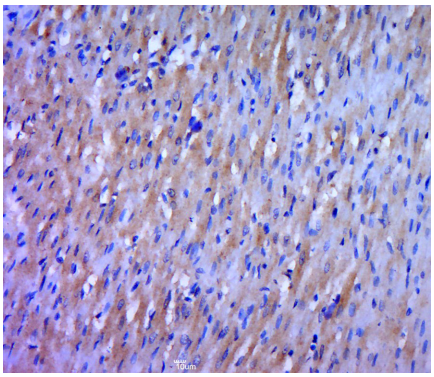
Background

The WRCH1 protein is a member of the Rho family of GTPases. This protein can activate PAK1 and JNK1, and can induce filopodium formation and stress fiber dissolution. It may also mediate the effects of WNT1 signaling in the regulation of cell morphology, cytoskeletal organization, and cell proliferation.

Images



Sample:
Cerebrum (Mouse) Lysate at 40 ug
Primary: Anti- WRCH1 (AP57526) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 29 kD
Observed band size: 29 kD



Paraformaldehyde-fixed, paraffin embedded (rat heart tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (WRCH1) Polyclonal Antibody, Unconjugated (AP57526) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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