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Anti-RIT1 Antibody

Catalog # AP51476

Product Information

Application	WB, IF/IC
Primary Accession	Q92963
Reactivity	Human, Mouse, Pig, Bovine, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	25145

Additional Information

Gene ID	6016
Other Names	RIBB; RIT; ROC1; GTP-binding protein Rit1; Ras-like protein expressed in many tissues; Ras-like without CAAX protein 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human RIT1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

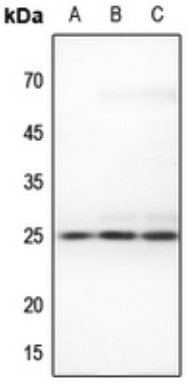
Protein Information

Name	RIT1
Synonyms	RIBB, RIT, ROC1
Function	Plays a crucial role in coupling nerve growth factor (NGF) stimulation to the activation of both EPHB2 and MAPK14 signaling pathways and in NGF-dependent neuronal differentiation (PubMed:15632082). Involved in ELK1 transactivation through the Ras- MAPK signaling cascade that mediates a wide variety of cellular functions, including cell proliferation, survival, and differentiation (PubMed:23791108). Recognized by LZTR1, which mediates its ubiquitination by a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex (PubMed:40934300).
Cellular Location	Cell membrane.
Tissue Location	Expressed in many tissues.

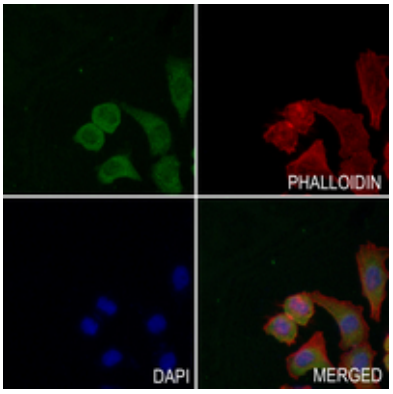
References

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Wes P.D.,et al.EMBO J. 15:5839-5848(1996).
Kawasaki H.,et al.Submitted (JUL-1997) to the EMBL/GenBank/DDBJ databases.
Shao H.,et al.Arch. Biochem. Biophys. 371:207-219(1999).
Puhl H.L. III,et al.Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.

Images



Western blot analysis of RIT1 expression in Hela (A), mouse liver (B), mouse kidney (C) whole cell lysates. (Predicted band size: 25 kD; Observed band size: 25 kD)



Immunofluorescent analysis of RIT1 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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