

RND3 Rabbit pAb

Catalog # AP99886

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P61587
Other Accession	P61587
Reactivity	Rat, Human
Predicted	Pig, Mouse, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27368
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RND3
Epitope Specificity	51-150/244
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the small GTPase superfamily. Rho family.
SUBUNIT	Binds ROCK1 (By similarity). Interacts with UBXD5.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The Rho family of proteins mediates cytoskeleton organization and cell motility responses. This family contains twenty different members divided into five groups, the Rho-like, Rac-like, Cdc42-like, Rnd and RhoBTB subfamilies. Rho proteins have GTPase activity and bind GTP in their active form and GDP in their inactive form. In their active form they interact with downstream proteins. However, the Rnd subfamily of proteins containing the Rnd1, Rnd2 and RhoE(Rnd3), binds GTP but not GDP and has no GTPase activity. While Rho proteins are required for stress fibre formation in cultured fibroblasts, epithelial and endothelial cells, overexpression of Rnd3 or Rnd1 in the same cells may cause an opposite effect (i.e. decrease in stress fibre). Thus, the Rnd3 protein may act as an antagonist for the Rho proteins either by directly binding to Rho or to other downstream proteins.

Additional Information

Gene ID	390
Other Names	ARHE; Rho8; RhoE; memB; 2610017M01Rik; RND3_HUMAN; RND3; Protein MemB; Rho family GTPase 3; Rho-related GTP-binding protein Rho8; RND3_MOUSE; RND3_PIG; RND3_RAT; ras homolog gene family, member E
Dilution	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	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.

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