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RAB40A Rabbit pAb

Catalog # AP97567

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8WXH6
Other Accession	Q8WXH6
Predicted	Rat, Human, Mouse, Rabbit, Chicken, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31076
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RAB40A
Epitope Specificity	171-277/277
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. Rab family. Contains 1 SOCS box domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The Ras-related superfamily of guanine nucleotide binding proteins includes the R-Ras, Rap, Ral/Rec and Rho/Rab subfamilies all of which are thought to play an important role in either endocytosis or in biosynthetic protein transport. The process of transporting newly synthesized proteins from the endoplasmic reticulum (ER) to various stacks of the Golgi complex and to secretory vesicles involves the movement of carrier vesicles and requires Rab protein function. Rab proteins are also an integral part of endocytic pathways. Rab 40A, Rab 40B and Rab 40C each contain one SOCS box domain and are members of the Rab subfamily of GTPases. Localized to the cytoplasmic side of the cell membrane, Rab 40A, Rab 40B and Rab 40C are thought to function as substrate-recognition components of a SCF-like ECS (Elongin-Cullin-SOCS-box protein) E3 ubiquitin ligase complex that functions to mediate the degradation of target proteins.

Additional Information

Gene ID	142684
Other Names	RAR2; RAR2A; RB40A_HUMAN; RAB40A; SOCS box-containing protein RAR2A (Protein Rar-2); 3.6.5.2; RAB40A, member RAS oncogene family
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	RAB40A (HGNC:18283)
Function	RAB40A small GTPase acts as substrate-recognition component of the ECS(RAB40A) E3 ubiquitin ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:26598620). The Rab40 subfamily belongs to the Rab family that are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different sets of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (By similarity). As part of the ECS(RAB40A) complex, mediates RHOU 'Lys-48'-linked ubiquitination and degradation, thus inhibiting focal adhesion disassembly during cell migration (PubMed:26598620).
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side

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