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RNF93 Rabbit pAb

Catalog # AP97347

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9C019
Other Accession	Q9C019
Reactivity	Rat
Predicted	Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52113
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RNF93/ZNF178
Epitope Specificity	101-200/465
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 SH3RF family. Contains 1 RING-type zinc finger. Contains 4 SH3 domains.
SUBUNIT	Interacts with Rac; in a GTP-dependent manner (By similarity). Interacts with MAP3K10 and MAP3K11. Interacts with MAPK8IP; this interaction leads to the PJAC complex (POSH-JIP or SH3RF1/MAPK8IP apoptotic complex) with a 1:1 ratio. Interacts with SIAH1. Interacts with HERP1. Probably part of a signaling complex that may contain SH3RF1, MAPK8IP, DLK1, MAP2K4, MAP2K7, MAPK8, MAPK9, AKT1 and AKT2.
Post-translational modifications	Phosphorylated at Ser-304 by AKT1 and AKT2. When phosphorylated, it has reduced ability to bind Rac. Subject to ubiquitination and proteasomal degradation (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SH3MD2 acts as a scaffold protein, contributes to Rac-induced signal transduction such as JNKs (MAPK8 and MAPK9) activation and induces apoptosis. Within a signaling complex, it probably recruits protein kinases such as MAP3K10 or MAP3K11 which are in turn activated leading to the sequential activation of MAP2K4, MAP2K7 and JNKs (MAPK8 and MAPK9). SH3MD2 may be involved in targeting of HIV-1 GAG and GAG-POL polyproteins to the plasma membrane. This gene encodes a protein containing an N-terminus RING-finger, four SH3 domains, and a region implicated in binding of the Rho GTPase Rac. Via the RING-finger, the encoded protein has been shown to function as an ubiquitin-protein ligase involved in protein sorting at the trans-Golgi network. The encoded protein may also act as a scaffold for the c-Jun N-terminal kinase signaling pathway, facilitating the formation of a functional signaling module. There are two named isoforms.

Additional Information

Gene ID	89870
Other Names	RNF93; ZNF178; ZNFB7; 1810012B10Rik; Trim15; TRI15_HUMAN; RING finger protein 93; Zinc finger protein 178; Zinc finger protein B7; 2.3.2.27; tripartite motif containing 15; tripartite motif-containing 15
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	TRIM15
Synonyms	RNF93, ZNF178, ZNFB7
Function	E3 ubiquitin-protein ligase that plays a role in several processes including innate antiviral immnity, cell migration and chemotaxis (PubMed:23077300, PubMed:34142270). Acts as a 'Lys-63'- specific ubiquitin ligase for MAPK1/ERK2 and MAPK3/ERK1, promoting their activation by facilitating their interaction with MAP2K1 and MAP2K2 (PubMed:34497368). Also plays a role in cell migration and chemotaxis by acting as a stable focal adhesion component upon recruitment by multi-adapter protein paxillin/PXN (PubMed:25015296). Functions in the RIGI-mediated interferon induction pathway upstream or at the level of MAVS (PubMed:23077300). Inhibits NF-kappa-B activation by turnover of 'Lys-63'-linked ubiquitination of MAP3K7/TAK1. Mechanistically, prevents TRIM8 cytoplasmic translocation and thus inhibits TRIM8-mediated 'Lys-63'-linked polyubiquitination of MAP3K7/TAK1 in the cytoplasm (PubMed:34871740). Also plays an important regulatory effect on the activation of hepatic stellate cells (HSCs).
Cellular Location	Cytoplasm. Nucleus Cell junction, focal adhesion Note=Localizes to focal adhesions during the early stage of adhesion biogenesis.

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