10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TRIM23 Rabbit pAb

Catalog # AP98075

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P36406
Other Accession	P36406
Reactivity	Rat, Human
Predicted	Pig, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64067
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TRIM23
Epitope Specificity	201-300/574
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SIMILARITY	In the C-terminal section; belongs to the small GTPase superfamily. Arf family. Contains 1 B box-type zinc finger.
SUBUNIT	Interacts with PSCD1. Interacts with human cytomegalovirus protein UL144; this interaction might causes auto-ubiquitination of TRAF6, leading to NF-kappaB 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 protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This protein is also a member of the ADP ribosylation factor family of guanine nucleotide-binding family of proteins. Its carboxy terminus contains an ADP-ribosylation factor domain and a guanine nucleotide binding site, while the amino terminus contains a GTPase activating protein domain which acts on the guanine nucleotide binding site. The protein localizes to lysosomes and the Golgi apparatus. It plays a role in the formation of intracellular transport vesicles, their movement from one compartment to another, and phopholipase D activation. Three alternatively spliced transcript variants for this gene have been described. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	373
Other Names	ARD1; ARFD1; RNF46; 6330516O20Rik; TRI23_HUMAN; TRIM23; ADP-ribosylation factor domain-containing protein 1; GTP-binding protein ARD-1; RING finger protein 46; RING-type E3 ubiquitin transferase TRIM23; Tripartite motif-containing protein 23; 2.3.2.27; TRI23_MOUSE; TRI23_RAT; Ard-1; tripartite motif containing 23; ADP-ribosylation factor domain protein

	1, 64kDa; tripartite motif-containing 23
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	TRIM23
Synonyms	ARD1, ARFD1, RNF46
Function	E3 ubiquitin ligase that harbors GTPase activity encoded by the C-terminal ARF domain. Plays an essential role in autophagy activation during viral infection (PubMed:31189704, PubMed:40360474). Mechanistically, activates TANK-binding kinase 1/TBK1 by facilitating its dimerization and ability to phosphorylate the selective autophagy receptor SQSTM1 (PubMed:28871090, PubMed:31189704). In order to achieve this function, TRIM23 mediates 'Lys-27'-linked auto-ubiquitination of its ADP-ribosylation factor (ARF) domain to induce its GTPase activity and its recruitment to autophagosomes (PubMed:28871090). Catalyzes 'Lys-63'-linked polyubiquitination of HAX1 that triggers its liquid- liquid phase separation (LLPS) and contributes to P-bodies assembly induced by energy stress (PubMed:38769438).
Cellular Location	Cytoplasm. Endomembrane system. Golgi apparatus membrane. Lysosome membrane. Cytoplasm, P-body. Note=Membrane-associated with the Golgi complex and lysosomal structures

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