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TRIM23/ARD1 Rabbit mAb

Catalog # AP76202

Product Information

Application	WB
Primary Accession	P36406
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	64067

Additional Information

Gene ID	373
Other Names	TRIM23
Dilution	WB~~1:2000-1:5000
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

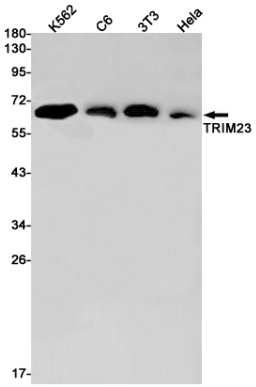
Name	TRIM23
Synonyms	ARD1, ARFD1, RNF46
Function	E3 ubiquitin ligase that harbors GTPase activity encoded by the C-terminal ARF domain. Plays an essential role in autophagy activation during viral infection (PubMed:31189704, PubMed:40360474). Mechanistically, activates TANK-binding kinase 1/TBK1 by facilitating 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

Background

Acts as an E3 ubiquitin-protein ligase. Plays an essential role in autophagy activation during viral infection. Mechanistically, activates TANK-binding kinase 1/TBK1 by facilitating its dimerization and ability to phosphorylate the selective autophagy receptor SQSTM1. 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).

Images



Western blot analysis of TRIM23 in K562, C6, 3T3, Hela lysates using TRIM23 antibody.

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