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TRIM41 Rabbit pAb

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Catalog # AP59161

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8WV44
Reactivity	Human, Mouse
Predicted	Rat, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71670
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TRIM41
Epitope Specificity	251-350/630
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Tripartite motif-containing protein 41 (TRIM41), also known as RINCK, is a 630 amino acid member of the TRIM family, also known as the RING-B-box coiled-coil (RBCC) family. Members of the RBCC family have an N-terminal RING finger, followed by one or two zinc-binding domains (B-box domains), a leucine coiled-coil region and a variable C-terminal domain. Localized to both the nucleus and cytoplasm, TRIM41 associates with protein kinase C (PKC) through the C1A domain of PKC. Studies have shown that overexpression of TRIM41 reduces the levels of PKC in cells, whereas knockdown of TRIM41 leads to increased levels of PKC. Thus, it is hypothesized that TRIM41 plays a role in regulating PCK levels in cells, specifically through the ubiquitination of PKC. Four isoforms of TRIM41 exist as a result of alternative splicing events.

Additional Information

Gene ID	90933
Other Names	E3 ubiquitin-protein ligase TRIM41, 2.3.2.27, RING finger-interacting protein with C kinase, RINCK, Tripartite motif-containing protein 41, TRIM41 {ECO:0000303|PubMed:16022281, ECO:0000312|HGNC:HGNC:19013}
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.

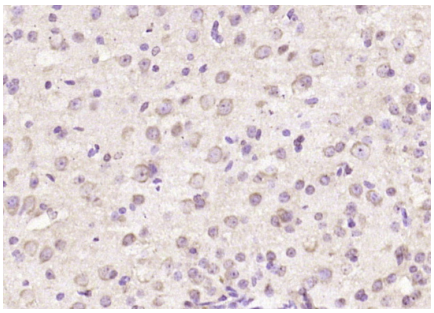
Protein Information

Name	TRIM41 {ECO:0000303|PubMed:16022281, ECO:0000312|HGNC:HGNC:19013}
Function	E3 ligase that plays essential roles in innate antiviral response (PubMed:28169297, PubMed:29760876, PubMed:29899090, PubMed:31979016). Directly binds to influenza A virus or vesicular stomatitis virus nucleoproteins and targets them for ubiquitination and proteasomal degradation, thereby limiting viral infections (PubMed:28169297, PubMed:29899090, PubMed:31979016). Activates the innate antiviral response by catalyzing monoubiquitination of CGAS, thereby activating CGAS (PubMed:29760876). Also involved in innate antiviral response by mediating 'Lys-63'-linked polyubiquitylation of BCL10 which in turn hubs NEMO for activation of NF-kappa-B and IRF3 pathways (By similarity). Catalyzes the ubiquitin-mediated degradation of other substrates including protein kinase C, ZSCAN21 or TOP3B suggesting additional roles besides its function in immune response (PubMed:17893151, PubMed:33378676).
Cellular Location	Cytoplasm. Nucleus
Tissue Location	Expressed in multiple tissues with the highest levels in heart and skeletal muscle.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (TRIM41) Polyclonal Antibody, Unconjugated (AP59161) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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