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ZCCHV Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57151

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q7Z2W4
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	101431

Additional Information

Gene ID	56829
Other Names	Zinc finger CCCH-type antiviral protein 1, ADP-ribosyltransferase diphtheria toxin-like 13, ARTD13, Inactive Poly [ADP-ribose] polymerase 13, PARP13, Zinc finger CCCH domain-containing protein 2, Zinc finger antiviral protein, ZAP, ZC3HAV1 (HGNC:23721), ZC3HDC2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=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	ZC3HAV1 (HGNC:23721)
Synonyms	ZC3HDC2
Function	Antiviral protein which inhibits the replication of viruses by recruiting the cellular RNA degradation machineries to degrade the viral mRNAs (PubMed:32866210). Binds to a ZAP-responsive element (ZRE) present in the target viral mRNA, recruits cellular poly(A)-specific ribonuclease PARN to remove the poly(A) tail, and the 3'-5' exoribonuclease complex exosome to degrade the RNA body from the 3'- end. It also recruits the decapping complex DCP1-DCP2 through RNA helicase p72 (DDX17) to remove the cap structure of the viral mRNA to initiate its degradation from the 5'-end. Its target viruses belong to families which include retroviridae, including human immunodeficiency virus type 1, filoviridae: ebola virus (EBOV) and marburg virus (MARV), togaviridae: sindbis virus (SINV) and Ross river virus (RRV). Specifically targets the multiply spliced but not unspliced or singly spliced HIV-1 mRNAs for degradation.

Cellular Location	[Isoform 1]: Nucleus {ECO:0000250|UniProtKB:Q3UPF5}. Lysosome {ECO:0000250|UniProtKB:Q3UPF5}. Late endosome {ECO:0000250|UniProtKB:Q3UPF5}. Note=Contrary to isoform 3, hardly detectable in the cytosol (By similarity). Localization to late endosomes/lysosomes depends upon farnesylation at Cys-993. Does not localize to early endosomes (By similarity) {ECO:0000250|UniProtKB:Q3UPF5}

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