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ZCCHC3/C20orf99 Rabbit pAb

Catalog # AP97249

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9NUD5
Other Accession	Q9NUD5
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43547
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ZCCHC3/C20orf99
Epitope Specificity	281-380/404
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ZCCHC3 is a 404 amino acid protein that contains three CCHC-type zinc fingers, suggesting a role in transcriptional regulation. The gene encoding ZCCHC10 maps to human chromosome 20, which houses over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome. Additionally, chromosome 20 contains a region with numerous genes which are thought important for seminal production and may be potential targets for male contraception.

Additional Information

Gene ID	85364
Other Names	C20orf99; 2810406K24Rik; ZCHC3_HUMAN; ZCCHC3; zinc finger CCHC-type containing 3; chromosome 20 open reading frame 99
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=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	ZCCHC3 (HGNC:16230)

Function	Nucleic acid-binding protein involved in innate immune response to DNA and RNA viruses (PubMed:30135424, PubMed:30193849). Binds DNA and RNA in the cytoplasm and acts by promoting recognition of viral nucleic acids by virus sensors, such as RIGI, IFIH1/MDA5 and CGAS (PubMed:30135424, PubMed:30193849). Acts as a co-sensor for recognition of double-stranded DNA (dsDNA) by cGAS in the cytoplasm, thereby playing a role in innate immune response to cytosolic dsDNA and DNA virus (PubMed:30135424). Binds dsDNA and probably acts by promoting sensing of dsDNA by CGAS, leading to enhance CGAS oligomerization and activation (PubMed:30135424). Promotes sensing of viral RNA by RIGI- like receptors proteins RIGI and IFIH1/MDA5 via two mechanisms: binds double-stranded RNA (dsRNA), enhancing the binding of RIGI and IFIH1/MDA5 to dsRNA and promotes 'Lys-63'-linked ubiquitination and subsequent activation of RIGI and IFIH1/MDA5 (PubMed:30193849).
Cellular Location	Cytoplasm.

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