

ZCCHC3/C20orf99 Rabbit pAb

Catalog # AP97249

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9NUD5
Other Accession	Q9NUD5
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=1:500 0-10000
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'.