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ZC3H14 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16512c

Product Information

Application	WB, E
Primary Accession	Q6PJT7
Other Accession	Q4R6F6, NP_997545.2
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35990
Calculated MW	82876
Antigen Region	401-429

Additional Information

Gene ID	79882
Other Names	Zinc finger CCCH domain-containing protein 14, Mammalian suppressor of tau pathology-2, MSUT-2, Renal carcinoma antigen NY-REN-37, ZC3H14
Target/Specificity	This ZC3H14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 401-429 amino acids from the Central region of human ZC3H14.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ZC3H14 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ZC3H14 {ECO:0000303|PubMed:19303045, ECO:0000312|HGNC:HGNC:20509}
Function	RNA-binding protein involved in the biogenesis of circular RNAs (circRNAs),

	which are produced by back-splicing circularization of pre-mRNAs (PubMed:39461343). Acts by binding to both exon-intron boundary and 3'-UTR of pre-mRNAs to promote circRNA biogenesis through dimerization and the association with the spliceosome (PubMed:39461343). Required for spermatogenesis via involvement in circRNA biogenesis (PubMed:39461343). Regulates the pre-mRNA processing of ATP5MC1; preventing its degradation (PubMed:27563065). Also binds the poly(A) tail of mRNAs; controlling poly(A) length in neuronal cells (PubMed:17630287, PubMed:24671764).
Cellular Location	Nucleus speckle Note=Colocalizes with poly(A) RNA in nuclear speckles {ECO:0000250|UniProtKB:Q7TMD5} [Isoform 3]: Nucleus speckle
Tissue Location	[Isoform 1]: Expressed in fetal and adult brain (PubMed:21734151). Expressed in fetal and adult temporal lobe (PubMed:21734151).

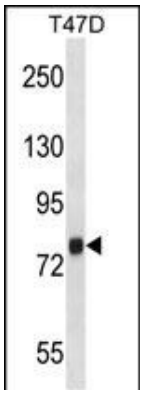
Background

ZC3H14 belongs to a family of poly(A)-binding proteins that influence gene expression by regulating mRNA stability, nuclear export, and translation (Kelly et al., 2007 [PubMed 17630287]).

References

Wheeler, J.M., et al. Biochem. Soc. Trans. 38(4):973-976(2010)
Leung, S.W., et al. Gene 439 (1-2), 71-78 (2009) :
Kelly, S.M., et al. Proc. Natl. Acad. Sci. U.S.A. 104(30):12306-12311(2007)
Scanlan, M.J., et al. Int. J. Cancer 83(4):456-464(1999)

Images



ZC3H14 Antibody (Center) (Cat. #AP16512c) western blot analysis in T47D cell line lysates (35ug/lane).This demonstrates the ZC3H14 antibody detected the ZC3H14 protein (arrow).

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