Product Name: RTCD1 Rabbit Polyclonal Antibody
Catalog #: APRab17429

Summary

Production Name	RTCD1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	RTCA
Alternative Names	RTCA; RPC; RPC1; RTC1; RTCD1; RNA 3'-terminal phosphate cyclase; RNA cyclase; RNA-3'-phosphate cyclase; RNA terminal phosphate cyclase domain-containing protein 1; RTC domain-containing protein 1
Gene ID	8634.0
SwissProt ID	O00442.The antiserum was produced against synthesized peptide derived from human RTCD1. AA range:317-366

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000..
Molecular Weight	40kD

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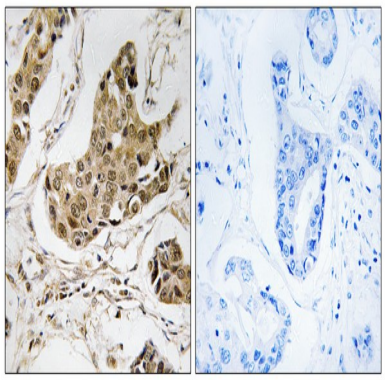
Background

RNA 3'-terminal phosphate cyclase(RTCA) Homo sapiens This gene encodes a member of the RNA 3'-phosphate cyclase family. The encoded protein plays a role in RNA metabolism by catalyzing the ATP-dependent conversion of the 3'-phosphate of RNA substrates to a 2',3'-cyclic phosphodiester. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2012],catalytic activity:ATP + RNA 3'-terminal-phosphate = AMP + diphosphate + RNA terminal-2',3'-cyclic-phosphate.,function:Catalyzes the conversion of 3'-phosphate to a 2',3'-cyclic phosphodiester at the end of RNA. The mechanism of action of the enzyme occurs in 3 steps: (A) adenylation of the enzyme by ATP; (B) the enzyme acts on RNA-N3'P to produce RNA-N3'PP5'A; (C) a non catalytic nucleophilic attack by the adjacent 2'hydroxyl on the phosphorus in the diester linkage to produce the cyclic end product. The biological role of this enzyme is unknown but it is likely to function in some aspects of cellular RNA processing.,similarity:Belongs to the RNA 3'-terminal cyclase family. Type 1 subfamily.,subunit:Monomer.,tissue specificity:Ubiquitous.,

Research Area

Image Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using RTCD1 Antibody. The picture on the right is blocked with the synthesized peptide.

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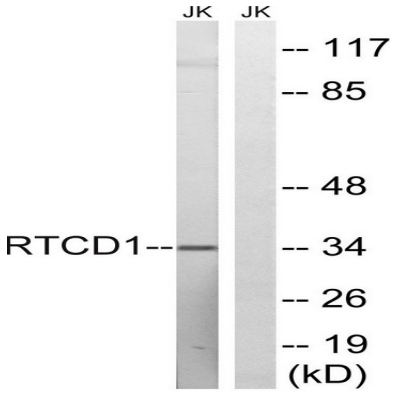

Western blot analysis of lysates from Jurkat cells, using RTCD1 Antibody. The lane on the right is blocked with the synthesized peptide.

Note

For research use only.