
Product Name: RTCD1 Rabbit Polyclonal Antibody**Catalog #: APRab17429**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:10000
Molecular Weight	40kDa

Antigen Information

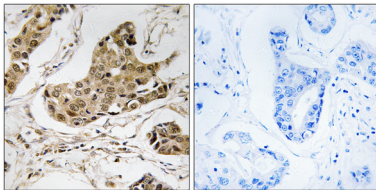
Gene Name	RTCA RTCA; RPC; RPC1; RTC1; RTCD1; RNA 3'-terminal phosphate cyclase; RNA cyclase; RNA-3'-
Alternative Names	phosphate cyclase; RNA terminal phosphate cyclase domain-containing protein 1; RTC domain-containing protein 1
Gene ID	8634.0
SwissProt ID	O00442
Immunogen	The antiserum was produced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

Background

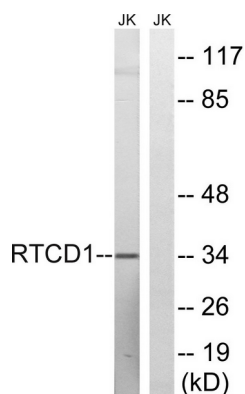
RNA 3'-terminal phosphate cyclase(RTCA) Homo sapiens This gene encodes a member of the RNA 3'-phosphate cyclase family. The encoded protein plays a role in RNA metabolism by catalyzing the ATP-dependent conversion of the 3'-phosphate of RNA substrates to a 2',3'-cyclic phosphodiester. Alternatively spliced 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.



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