

RTCD1 Polyclonal Antibody

Catalog No :	YT4187
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	RTCD1
Gene Name :	RTCA
Protein Name :	RNA 3'-terminal phosphate cyclase
Human Gene Id :	8634
Human Swiss Prot No :	O00442
Mouse Swiss Prot No :	Q9D7H3
Immunogen :	The antiserum was produced against synthesized peptide derived from human RTCD1. AA range:317-366
Specificity :	RTCD1 Polyclonal Antibody detects endogenous levels of RTCD1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	40kD

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],

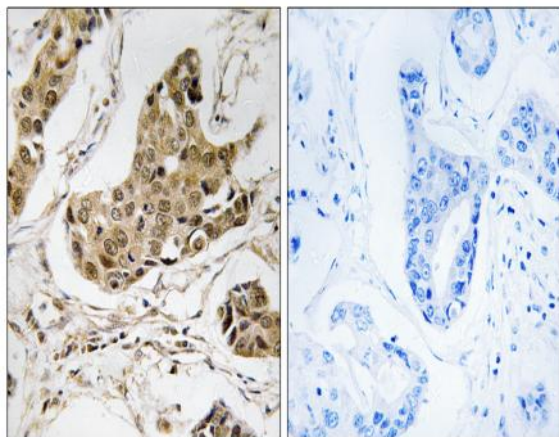
Function : catalytic activity:ATP + RNA 3'-terminal-phosphate = AMP + diphosphate + RNA terminal-2',3'-cyclic-phosphate.,function:Catalyzes the conversion of 3'-phosphate to a 2',3'-cyclic phosphodiester at the end of RNA. The mechanism of action of the enzyme occurs in 3 steps: (A) adenylation of the 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.,

Subcellular Location : Nucleus, nucleoplasm .

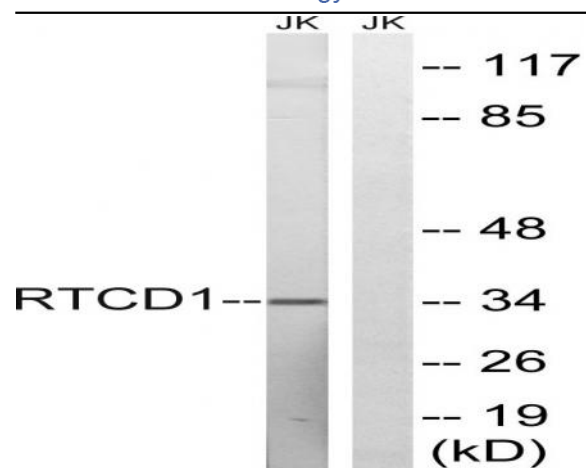
Location :

Expression : Ubiquitous.

Products Images



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.