

RTCD1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP57291

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	O00442
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39337

Additional Information

Gene ID	8634
Other Names	RNA 3'-terminal phosphate cyclase, RNA cyclase, RNA-3'-phosphate cyclase, 6.5.1.4, RNA terminal phosphate cyclase domain-containing protein 1, RTC domain-containing protein 1, RTCA, RPC, RPC1, RTC1, RTCD1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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	RTCA
Synonyms	RPC, RPC1, RTC1, RTCD1
Function	Catalyzes the conversion of 3'-phosphate to a 2',3'-cyclic phosphodiester at the end of RNA (PubMed: 9184239). The mechanism of action of the enzyme occurs in 3 steps: (A) adenylation of the enzyme by ATP; (B) transfer of adenylate to an RNA-N3'P to produce RNA- N3'PP5'A; (C) and attack of the adjacent 2'-hydroxyl on the 3'- phosphorus in the diester linkage to produce the cyclic end product (PubMed: 9184239). Likely functions in some aspects of cellular RNA processing (PubMed: 25961792 , PubMed: 9184239). Function plays an important role in regulating axon regeneration by inhibiting central nervous system (CNS) axon regeneration following optic nerve injury (PubMed: 25961792).
Cellular Location	Nucleus, nucleoplasm

Tissue Location

Ubiquitous.

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