

## RPC2 Antibody

Catalog No: #34653

Package Size: #34653-1 50ul #34653-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

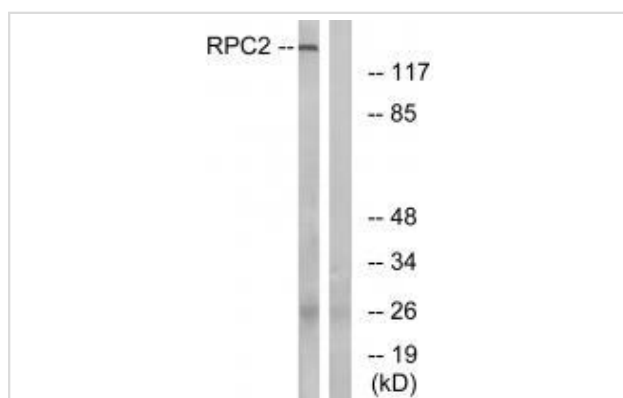
## Description

Product Name	RPC2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of total RPC2 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human RPC2.
Target Name	RPC2
Other Names	DNA-directed RNA polymerase III subunit 127.6 kDa polypeptide; EC 2.7.7.6; polymerase (RNA) III (DNA directed) polypeptide B; RNA polymerase III subunit 2; RNA polymerase III subunit RPC2
Accession No.	Swiss-Prot: Q9NW08NCBI Gene ID: 55703
Uniprot	Q9NW08
GeneID	55703;
SDS-PAGE MW	128kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

## Application Details

Western blotting: 1:500~1:3000

## Images



Western blot analysis of extracts from LOVO cells, using RPC2 antibody #34653.

## Background

DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Second largest core component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Proposed to contribute to the polymerase catalytic activity and forms the polymerase active center together with the largest subunit. Pol III is composed of mobile elements and RPC2 is part of the core element with the central large cleft and probably a clamp element that moves to open and close the cleft. By similarity. Plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. Acts as nuclear and cytosolic DNA sensor involved in innate immune response. Can sense non-self dsDNA that serves as template for transcription into dsRNA. The non-self RNA polymerase III transcripts, such as Epstein-Barr virus-encoded RNAs (EBERs) induce type I interferon and NF- Kappa-B through the RIG-I pathway.

Hu P., Mol. Cell. Biol. 22:8044-8055(2002).

The MGC Project Team; Genome Res. 14:2121-2127(2004).

Ota T., Nat. Genet. 36:40-45(2004).

Note: This product is for in vitro research use only