Rabbit anti-Human, Mouse RPC1 Polyclonal Antibody | anti-RPC1 antibody

RPC1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324676	**Rabbit**	**Human, Mouse**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

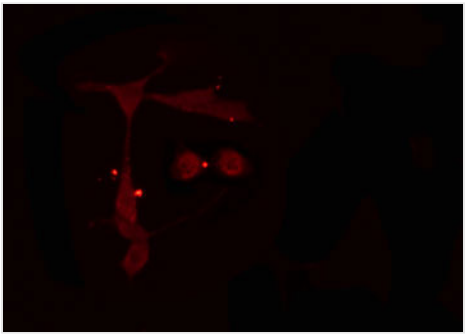
PRODUCT SYNONYMS

RPC1; Polyclonal Antibody; RPC1 Antibody; BC053071; DNA directed RNA polymerase III largest subunit; DNA directed RNA polymerase III subunit A; DNA-directed RNA polymerase III largest subunit; DNA-directed RNA polymerase III subunit A; DNA-directed RNA polymerase III subunit RPC1; hRPC155; MGC62420; POLR 3A; POLR3A; Polymerase (RNA) III (DNA directed) polypeptide A 155kDa; Polymerase (RNA) III (DNA directed) polypeptide A; RGD1305574; RNA polymerase III 155 kDa subunit; RNA polymerase III subunit C1; RNA polymerase III subunit C160; RNA polymerase III subunit RPC155 D; RPC1_HUMAN; RPC155; anti-RPC1 antibody

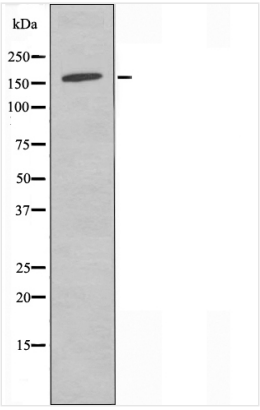
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	RPC1 antibody detects endogenous levels of total RPC1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1390
Applicable Applications for anti-RPC1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus.
Tissue Specificity	Expressed in the brain, in the cortex and the white matter (at protein level).
Predicted Cross Reactivity	**Pig, Zebrafish, Bovine, Horse, Rabbit, Dog, Chicken, Xenopus**
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)
AAA324676 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from HUVEC cells using RPC1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-RPC1 antibody	Function: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Largest and catalytic core component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. Forms the polymerase active center together with the second largest subunit. A single-stranded DNA template strand of the promoter is positioned within the central active site cleft of Pol III. A bridging helix emanates from RPC1 and crosses the cleft near the catalytic site and is thought to promote translocation of Pol III by acting as a ratchet that moves the RNA-DNA hybrid through the active site by switching from straight to bent conformations at each step of nucleotide addition (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. Subunit Structure: Component of the RNA polymerase III (Pol III) complex consisting of 17 subunits. Similarity: Belongs to the RNA polymerase beta' chain family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	39725938
NCBI GeneID	11128
NCBI Accession #	NP_008986.2
NCBI GenBank Nucleotide #	NM_007055.3
UniProt Accession #	O14802; Q8IW34; Q8TCW5
Molecular Weight	Observed: 156 kD Predicted: 156 kDa
NCBI Official Full Name	DNA-directed RNA polymerase III subunit RPC1
NCBI Official Synonym Full Names	RNA polymerase III subunit A
NCBI Official Symbol	POLR3A
NCBI Official Synonym Symbols	ADDH; HLD7; RPC1; RPC155; hRPC155
NCBI Protein Information	DNA-directed RNA polymerase III subunit RPC1
UniProt Protein Name	DNA-directed RNA polymerase III subunit RPC1
UniProt Gene Name	**POLR3A**

UniProt Synonym Gene Names	RNA polymerase III subunit C1; RPC155

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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