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Datasheet for ABIN2784816

anti-POLR3C antibody (Middle Region)

2 Images

Overview

Quantity:	100 µL
Target:	POLR3C
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Rabbit, Cow, Dog, Guinea Pig, Horse, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This POLR3C antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human POLR3C
Sequence:	VEAIIASMQA TGAEAAQLQE IEEMITAPER QQLETLKRNV NKLDASEIQV
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Yeast: 90%
Characteristics:	This is a rabbit polyclonal antibody against POLR3C. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	POLR3C
Alternative Name:	POLR3C (POLR3C Products)

Target Details

Background:	<p>DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. POLR3C is a specific core component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. POLR3C may direct with other members of the subcomplex RNA Pol III binding to the TFIIIB-DNA complex via the interactions between TFIIIB and POLR3F. POLR3C may be involved either in the recruitment and stabilization of the subcomplex within RNA polymerase III, or in stimulating catalytic functions of other subunits during initiation. POLR3C plays a key role in sensing and limiting infection by intracellular bacteria and DNA viruses. POLR3C acts as nuclear and cytosolic DNA sensor involved in innate immune response. POLR3C 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.</p> <p>Alias Symbols: RPC3, RPC62</p> <p>Protein Interaction Partner: PNMA5, CEP63, ROPN1, TNR, ROCK1, TRIM27, UBC, VCP, POLR1C, POLR2E, APP, POLR3H, NOC4L, RSL1D1, POLR3A, POLR3G, POLR3F, GTF3C4, POLR3D, TBP, GTF3C3, GTF3C5, GTF3C2, GTF3C1,</p> <p>Protein Size: 534</p>
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Molecular Weight:	60 kDa
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Gene ID:	10623
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NCBI Accession:	NM_006468 , NP_006459
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UniProt:	Q9BU14
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Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
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Comment:	Antigen size: 534 AA
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Concentration:	Lot specific
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Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
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Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-POLR3C Antibody Titration:

0.2-1 ug/ml

ELISA Titer: 1:12500

Positive Control: 293T cell lysate

Western Blotting

Image 2. WB Suggested Anti-POLR3C

Antibody Titration: 0.2-1 µg/mL ELISA Titer: 1:12500

Positive Control: 93T cell lysate

POLR3C is strongly supported by BioGPS gene expression data to be expressed in Human HEK293T cells