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Product datasheet

Anti-POLR3G antibody ab230854

3 Images

Overview

Product name	Anti-POLR3G antibody
Description	Rabbit polyclonal to POLR3G
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
	Predicted to work with: Monkey ⚠
Immunogen	Synthetic peptide within Human POLR3G (internal sequence) conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary. Database link: O15318
Positive control	WB: MCF7, RAW 264.7 and H9c2 whole cell lysates. IHC-P: Human tonsil and brain tissue.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.
	If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.01% Sodium azide Constituents: PBS, 30% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100.
WB		1/500 - 1/1000. Predicted molecular weight: 26 kDa.

Target

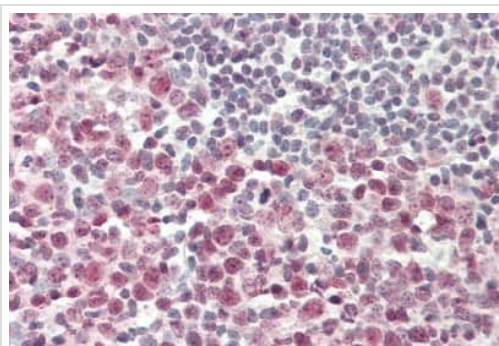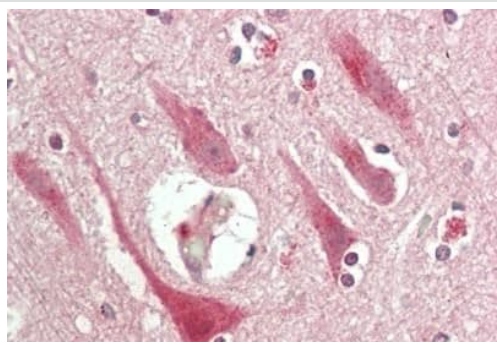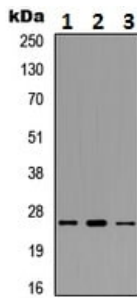|	
Function	DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as substrates. Specific peripheric component of RNA polymerase III which synthesizes small RNAs, such as 5S rRNA and tRNAs. May direct with other members of the RPC3/POLR3C-RPC6/POLR3F-RPC7/POLR3G subcomplex RNA Pol III binding to the TFIIIB-DNA complex via the interactions between TFIIIB and POLR3F. 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. 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.
Sequence similarities	Belongs to the eukaryotic RPC7 RNA polymerase subunit family.
Cellular localization	Nucleus.

Images

Formalin-fixed, paraffin-embedded human tonsil tissue stained for POLR3G using ab230854 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-POLR3G antibody (ab230854)

Formalin-fixed, paraffin-embedded human brain tissue stained for POLR3G using ab230854 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-POLR3G antibody (ab230854)

All lanes : Anti-POLR3G antibody (ab230854) at 1/500 dilution

Lane 1 : MCF7 (human breast adenocarcinoma cell line) whole cell lysate

Lane 2 : RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

Lane 3 : H9c2 (rat heart myoblast cell line) whole cell lysate

Western blot - Anti-POLR3G antibody (ab230854)

Developed using the ECL technique.

Predicted band size: 26 kDa

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