


## Product datasheet

# Anti-RNA Helicase A antibody ab70777

[3 References](#) [3 Images](#)

### Overview

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<b>Product name</b>	Anti-RNA Helicase A antibody
<b>Description</b>	Rabbit polyclonal to RNA Helicase A
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Chimpanzee, Gorilla, Orangutan 
<b>Immunogen</b>	Synthetic peptide corresponding to a region between residue 1220 and the C-terminus (residue 1270) of human RNA Helicase A (CAA71668.1)
<b>Positive control</b>	HeLa and 293T whole cell lysates.
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab70777 was affinity purified using an epitope specific to RNA Helicase A immobilized on solid support.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab70777 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Detects a band of approximately 141 kDa (predicted molecular weight: 141 kDa).
IP		Use at 2-5 µg/mg of lysate.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

### Function

Unwinds double-stranded DNA and RNA in a 3' to 5' direction. Alteration of secondary structure may subsequently influence interactions with proteins or other nucleic acids. Functions as a transcriptional activator. Component of the CRD-mediated complex that promotes MYC mRNA stability.

### Sequence similarities

Belongs to the DEAD box helicase family, DEAH subfamily.  
Contains 2 DRBM (double-stranded RNA-binding) domains.  
Contains 1 helicase ATP-binding domain.  
Contains 1 helicase C-terminal domain.

### Domain

The MTAD domain mediates interaction with the RNA polymerase II holoenzyme. The NTD domain is necessary and sufficient for nucleo-cytoplasmic shuttling and interaction with HRMT1L2 and SMN1.

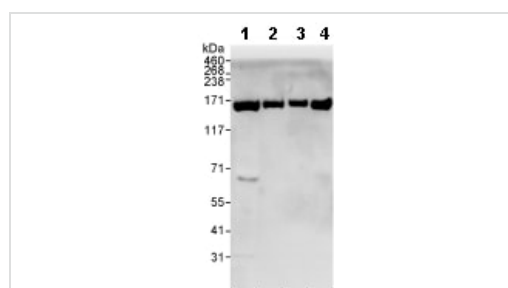
### Post-translational modifications

Methylated. HRMT1L2 mediated methylation of undefined Arg residues in the NTD is required for nuclear localization.  
May be phosphorylated by PRKDC/XRCC7. Phosphorylated upon DNA damage, probably by ATM or ATR.

### Cellular localization

Nucleus > nucleolus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Can shuttle between nucleus and cytoplasm.

## Images



Western blot - Anti-RNA Helicase A antibody (ab70777)

**All lanes :** Anti-RNA Helicase A antibody (ab70777) at 0.1 µg/ml

**Lane 1 :** HeLa whole cell lysate at 50 µg

**Lane 2 :** HeLa whole cell lysate at 15 µg

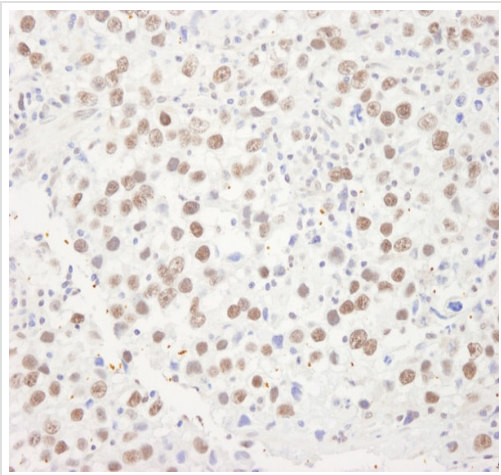
**Lane 3 :** HeLa whole cell lysate at 5 µg

**Lane 4 :** 293T whole cell lysate at 50 µg

**Predicted band size:** 141 kDa

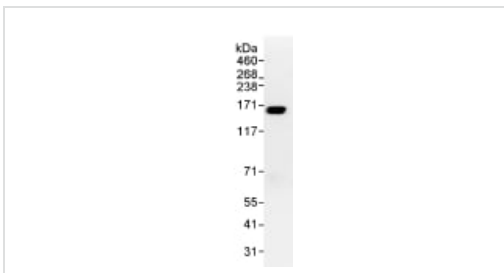
**Observed band size:** 141 kDa

**Exposure time:** 10 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNA Helicase A antibody (ab70777)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human testicular seminoma tissue labelling RNA Helicase A with ab70777 at 1/200 (1µg/ml). Detection: DAB.



Immunoprecipitation - Anti-RNA Helicase A antibody (ab70777)

Detection of RNA Helicase A by Western Blot of Immunoprecipitate. ab70777 at 1µg/ml staining RNA Helicase A in HeLa whole cell lysate immunoprecipitated using ab70777 at 3µg/mg lysate (1 mg/IP; 20% of IP loaded/lane). Detection: Chemiluminescence with exposure time of 10 seconds.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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