

## Product datasheet

# Anti-APOBEC3F antibody ab227962

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### Overview

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<b>Product name</b>	Anti-APOBEC3F antibody
<b>Description</b>	Rabbit polyclonal to APOBEC3F
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment within Human APOBEC3F (internal sequence). The exact sequence is proprietary. Database link: <a href="#">Q8IU4</a>
<b>Positive control</b>	WB: Jurkat whole cell lysate ( <a href="#">ab7899</a> ). IHC-P: Human colon carcinoma tissue. ICC/IF: A431 cells.
<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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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**The Abpromise guarantee**

Our **Abpromise guarantee** covers the use of ab227962 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		1/500 - 1/3000. Predicted molecular weight: 46 kDa.
ICC/IF		1/100 - 1/1000.
IHC-P		1/100 - 1/1000.

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**Target****Function**

DNA deaminase (cytidine deaminase) which acts as an inhibitor of retrovirus replication and retrotransposon mobility via deaminase-dependent and -independent mechanisms. Exhibits antiviral activity against vif-deficient HIV-1. After the penetration of retroviral nucleocapsids into target cells of infection and the initiation of reverse transcription, it can induce the conversion of cytosine to uracil in the minus-sense single-strand viral DNA, leading to G-to-A hypermutations in the subsequent plus-strand viral DNA. The resultant detrimental levels of mutations in the proviral genome, along with a deamination-independent mechanism that works prior to the proviral integration, together exert efficient antiretroviral effects in infected target cells. Selectively targets single-stranded DNA and does not deaminate double-stranded DNA or single- or double-stranded RNA. Exhibits antiviral activity also against hepatitis B virus (HBV), equine infectious anemia virus (EIAV), xenotropic MuLV-related virus (XMRV) and simian foamy virus (SFV) and may inhibit the mobility of LTR and non-LTR retrotransposons. May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation.

**Tissue specificity**

Widely expressed. Highly expressed in ovary.

**Sequence similarities**

Belongs to the cytidine and deoxycytidylate deaminase family.  
Contains 2 CMP/dCMP-type deaminase domains.

**Domain**

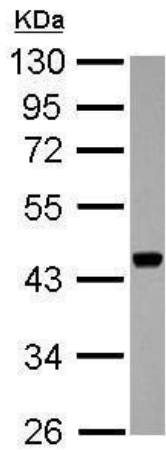
The CMP/dCMP deaminase domain 1 mediates RNA binding, RNA-dependent oligomerization and virion incorporation whereas the CMP/dCMP deaminase domain 2 confers deoxycytidine deaminase activity and substrate sequence specificity.

**Cellular localization**

Cytoplasm. Cytoplasm, P-body.

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**Images**

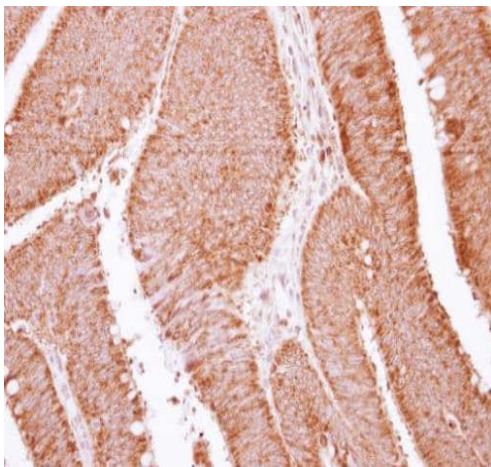


Western blot - Anti-APOBEC3F antibody (ab227962)

Anti-APOBEC3F antibody (ab227962) at 1/1000 dilution + Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate at 30  $\mu$ g

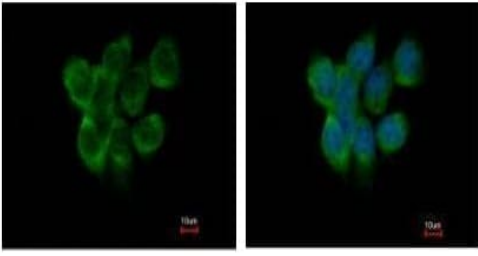
**Predicted band size:** 46 kDa

10% SDS PAGE gel.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-APOBEC3F antibody (ab227962)

Paraffin-embedded human colon carcinoma tissue stained for APOBEC3F using ab227962 at 1/250 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-APOBEC3F antibody (ab227962)

Paraformaldehyde-fixed A431 (human epidermoid carcinoma cell line) cells stained for APOBEC3F (green) using ab227962 at 1/500 dilution in ICC/IF.

Nuclear counter stain: Hoechst 33342 (blue).

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

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