

For Research Use Only

# APOBEC3A Recombinant antibody

Catalog Number: 84239-4-RR



## Basic Information

<b>Catalog Number:</b> 84239-4-RR	<b>GenBank Accession Number:</b> BC126416	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 200315	<b>CloneNo.:</b> 241529G4
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P31941	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3A	
<b>Immunogen Catalog Number:</b> AG18845	<b>Calculated MW:</b> 199 aa, 23 kDa	
	<b>Observed MW:</b> 28 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> WB : rat colon tissue, HeLa cells, HaCaT cells
<b>Species Specificity:</b> human, rat	<b>IF/ICC :</b> THP-1 cells,

## Background Information

APOBEC3A, also known as A3A, belongs to the cytidine and deoxycytidylate deaminase family. APOBEC3A plays a role in immunity, by restricting transmission of foreign DNA such as viruses. One mechanism of foreign DNA restriction is deamination of foreign double-stranded DNA cytidines to uridines, which leads to DNA degradation. However, other mechanisms are also thought to be involved, as anti-viral effect is not dependent on deaminase activity. APOBEC3A is expressed in several cell types, including keratinocytes and myeloid cells (PMID: 28825669). APOBEC3A has 2 isoforms with the molecular mass of 22 and 23 kDa.

## Storage

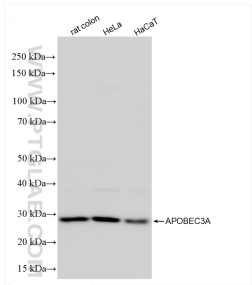
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

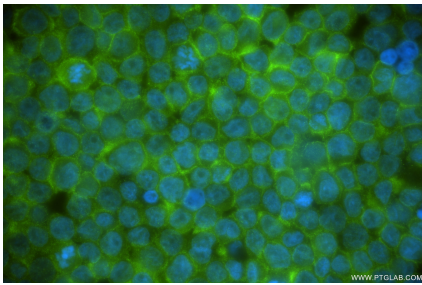
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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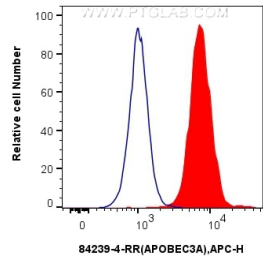
Selected Validation Data



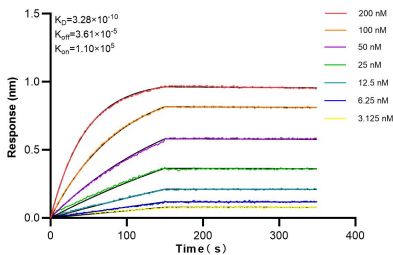
Various lysates were subjected to SDS PAGE followed by western blot with 84239-4-RR (APOBEC3A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using APOBEC3A antibody (84239-4-RR, Clone: 241529G4 ) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10<sup>6</sup> A431 cells were intracellularly stained with 0.25 ug Apobec3a Recombinant Antibody (84239-4-RR, Clone:241529G4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 84239-4-RR against Human APOBEC3A were performed. The affinity constant is 0.328 nM.