

For Research Use Only

# APOBEC3A Recombinant antibody, PBS Only (Capture)

Catalog Number: 84239-2-PBS



## Basic Information

<b>Catalog Number:</b> 84239-2-PBS	<b>GenBank Accession Number:</b> BC126416	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 200315	<b>CloneNo.:</b> 241529F1
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P31941	
<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	

## Applications

**Tested Applications:**  
IF/ICC, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## Product Information

84239-2-PBS targets APOBEC3A as part of a matched antibody pair:

MP01122-3: 84239-2-PBS capture and 84239-3-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

## 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 -80°C.

**Storage Buffer:**  
PBS Only

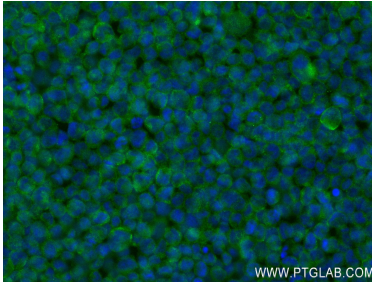
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

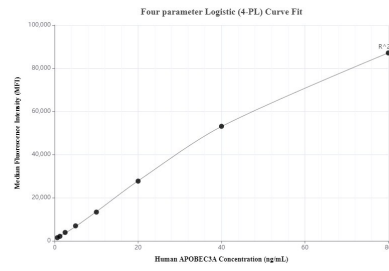
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

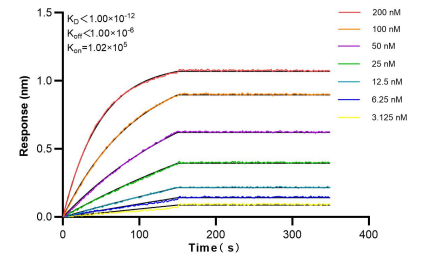
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using APOBEC3A antibody (84239-2-RR, Clone: 241529F1) at dilution of 1:250 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84239-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01122-3, APOBEC3A Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84239-2-PBS. Detection antibody: 84239-3-PBS. Standard: Ag18845. Range: 0.625-80 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 84239-2-RR against Human APOBEC3A were performed. The affinity constant is below 1 pM.