

For Research Use Only

APOBEC3A Recombinant antibody, PBS Only (Detector)

Catalog Number: 84239-4-PBS



Basic Information

Catalog Number: 84239-4-PBS	GenBank Accession Number: BC126416	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 200315	CloneNo.: 241529G4
Source: Rabbit	UNIPROT ID: P31941	
Isotype: IgG	Full Name: apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3A	
Immunogen Catalog Number: AG18845	Calculated MW: 199 aa, 23 kDa	
	Observed MW: 28 kDa	

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), Cytometric bead array, Indirect
ELISA

Species Specificity:
human, rat

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.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

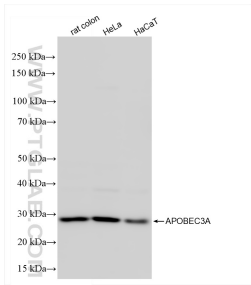
T: 4006900926

E: Proteintech-CN@ptglab.com

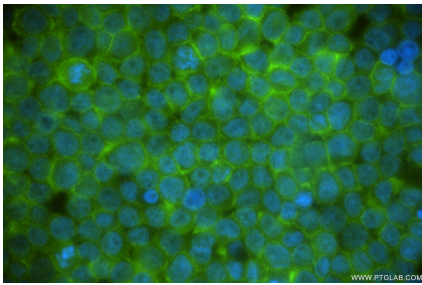
W: ptgcn.com

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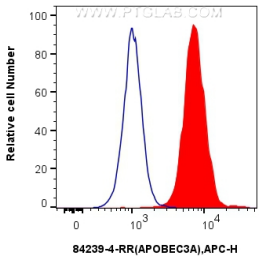
Selected Validation Data



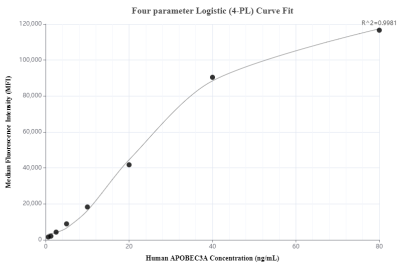
Various lysates were subjected to SDS PAGE followed by western blot with 84239-4-RR (APOBEC3A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84239-4-PBS in a different storage buffer formulation.



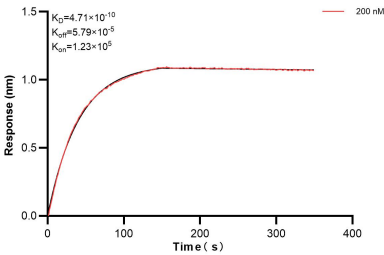
Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using APOBEC3A antibody (84239-4-RR, Clone: 241529G4) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84239-4-PBS in a different storage buffer formulation.



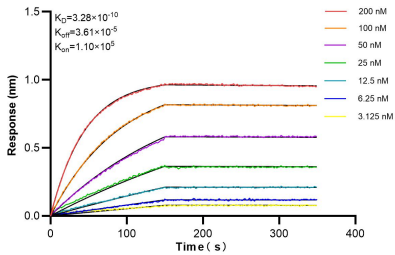
1x10⁶ A431 cells were intracellularly stained with 0.25 ug Apobec3a Recombinant Antibody (84239-4-RR, Clone:241529G4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 84239-4-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01122-2, APOBEC3A Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84239-1-PBS. Detection antibody: 84239-4-PBS. Standard: Ag18845. Range: 0.625-80 ng/mL.



Bioluminescence resonance energy transfer (BRET) kinetic assay of 84239-4-PBS against Human APOBEC3A was performed. The affinity constant is 0.471 nM.



Bioluminescence resonance energy transfer (BRET) kinetic assays of 84239-4-RR against Human APOBEC3A were performed. The affinity constant is 0.328 nM.