

## Rabbit anti-Human, Mouse APOBEC3A Polyclonal Antibody | anti-APOBEC3A antibody

APOBEC3A Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                                                 |
|-----------|--------|--------------|--------------------------------------------------------------|
| AAA322475 | Rabbit | Human, Mouse | ELISA, Immunocytochemistry, Immunofluorescence, Western Blot |

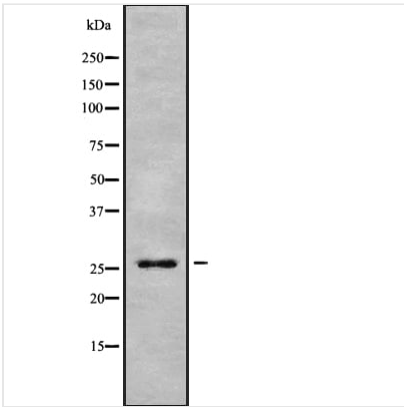
### PRODUCT SYNONYMS

APOBEC3A; Polyclonal Antibody; APOBEC3A Antibody; A3A; ABC3A\_HUMAN; Apolipoprotein B mRNA editing enzyme; catalytic polypeptide like 3A; ARP3; bK150C2.1; Catalytic polypeptide like 3A; Phorbolin 1; Phorbolin-1; PHRBN; Probable DNA dC > dU editing enzyme APOBEC-3A; Probable DNA dC-> dU-editing enzyme APOBEC-3A; anti-APOBEC3A antibody

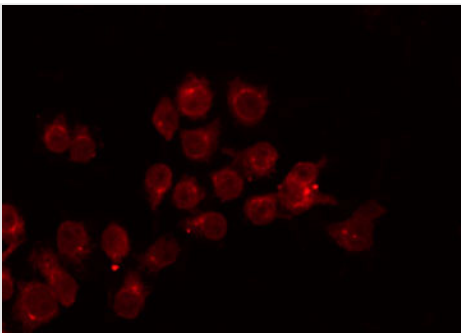
### PRODUCT SPECIFICATIONS

|                                                    |                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Rabbit                                                                                                                                                                                                                                                                                                                                             |
| Reactivity                                         | Human, Mouse                                                                                                                                                                                                                                                                                                                                       |
| Clonality                                          | Polyclonal                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                            | IgG                                                                                                                                                                                                                                                                                                                                                |
| Specificity                                        | APOBEC3A antibody detects endogenous levels of total APOBEC3A                                                                                                                                                                                                                                                                                      |
| Purity/Purification                                | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                                                                                                                                      |
| Form/Format                                        | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                      |
| Concentration                                      | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                             |
| Sequence Length                                    | 199                                                                                                                                                                                                                                                                                                                                                |
| Applicable Applications for anti-APOBEC3A antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                                                                                                                                                                                                                                                       |
| Immunogen                                          | A synthesized peptide derived from human APOBEC3A                                                                                                                                                                                                                                                                                                  |
| Subcellular Location                               | Nucleus                                                                                                                                                                                                                                                                                                                                            |
| Tissue Specificity                                 | Expressed in peripheral leukocytes with higher expression in CD14-positive phagocytic cells. Highly expressed in keratinocytes and in periphery blood monocytes. Also detected in non-lymphoid tissues including lung and adipose tissues. Found at high levels in colorectal adenocarcinoma, Burkitt's lymphoma and chronic myelogenous leukemia. |
| Conjugation                                        | Unconjugated                                                                                                                                                                                                                                                                                                                                       |
| Preparation and Storage                            | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                                  |

IMAGES



**WB (Western Blot)**  
Western blot analysis of APOBEC3A using Jurkat whole cell lysates



**IF (Immunofluorescence)**  
AAA322475 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

|                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-APOBEC3A antibody</b> | <p>Function: DNA deaminase (cytidine deaminase) with restriction activity against viruses, foreign DNA and mobility of retrotransposons. Exhibits antiviral activity against adeno-associated virus (AAV) and human T-cell leukemia virus type 1 (HTLV-1) and may inhibit the mobility of LTR and non-LTR retrotransposons. Selectively targets single-stranded DNA and can deaminate both methylcytosine and cytosine in foreign DNA. Can induce somatic hypermutation in the nuclear and mitochondrial DNA. May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation.</p> <p>Subunit Structure: Interacts with AGO2. Interacts with TRIB3 (via N-terminus).</p> <p>Similarity: Belongs to the cytidine and deoxycytidylate deaminase family.</p> |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| NCBI GI #                        | 300869638                                    |
| NCBI GeneID                      | 100913187                                    |
| NCBI Accession #                 | NP_001180218.1                               |
| NCBI GenBank Nucleotide #        | NM_001193289.1                               |
| UniProt Accession #              | P31941; Q12807; Q5JZ93; Q9UH18; A0AVM1       |
| Molecular Weight                 | Observed: 26 kDa<br>Predicted: 24 kDa        |
| NCBI Official Full Name          | probable DNA dC->dU-editing enzyme APOBEC-3A |
| NCBI Official Synonym Full Names | APOBEC3A and APOBEC3B deletion hybrid        |
| NCBI Official Symbol             | APOBEC3A_B                                   |
| NCBI Official Synonym Symbols    | A3A; APOBEC3A                                |
| NCBI Protein Information         | probable DNA dC->dU-editing enzyme APOBEC-3A |
| UniProt Protein Name             | DNA dC->dU-editing enzyme APOBEC-3A          |
| UniProt Gene Name                | <b>APOBEC3A</b>                              |
| UniProt Synonym Gene Names       | A3A                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

