

## Rabbit APOBEC3G Polyclonal Antibody | anti-APOBEC3G antibody

Anti-APOBEC3G Antibody

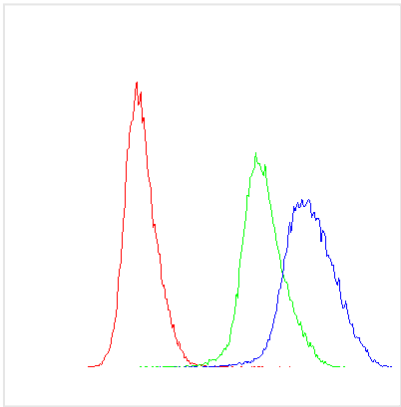
| CATALOG # | HOST   | REACTIVITY                                        | APPLICATIONS                       |
|-----------|--------|---------------------------------------------------|------------------------------------|
| AAA46636  | Rabbit | Human<br>No cross reactivity with other proteins. | Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

APOBEC3G; Polyclonal Antibody; Anti-APOBEC3G Antibody; A3G; ARCD; ARP-9; ARP9; CEM-15; CEM15; deoxycytidine deaminase; MDS019; Q9HC16; DNA dC->dU-editing enzyme APOBEC-3G; apolipoprotein B mRNA editing enzyme catalytic subunit 3G; anti-APOBEC3G antibody

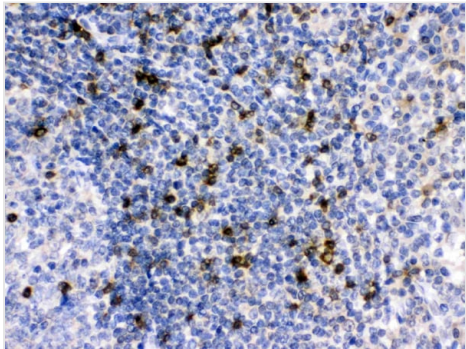
### PRODUCT SPECIFICATIONS

|                                                    |                                                                                                                                                                                                      |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Rabbit                                                                                                                                                                                               |
| Reactivity                                         | Human<br>No cross reactivity with other proteins.                                                                                                                                                    |
| Clonality                                          | Polyclonal                                                                                                                                                                                           |
| Isotype                                            | IgG                                                                                                                                                                                                  |
| Purity/Purification                                | Immunogen affinity purified.                                                                                                                                                                         |
| Form/Format                                        | Lyophilized                                                                                                                                                                                          |
| Sequence Length                                    | 384                                                                                                                                                                                                  |
| Applicable Applications for anti-APOBEC3G antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                        |
| Immunogen                                          | E Coli-derived human APOBEC3G recombinant protein (Position: E191-N384).                                                                                                                             |
| Contents                                           | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.                                                                                                                                  |
| Reconstitution                                     | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                 |
| Preparation and Storage                            | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |



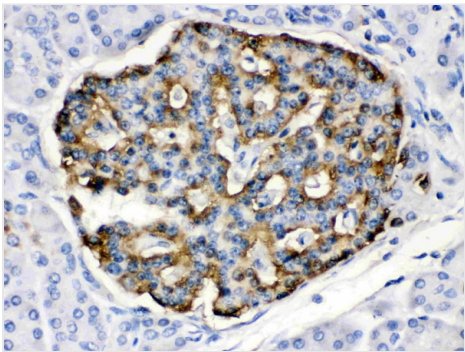
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of THP-1 cells using anti-APOBEC3G antibody (AAA46636).Overlay histogram showing THP-1 cells stained with AAA46636 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-APOBEC3G Antibody (AAA46636,1ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight&reg;488 conjugated goat anti-rabbit IgG (5-10ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



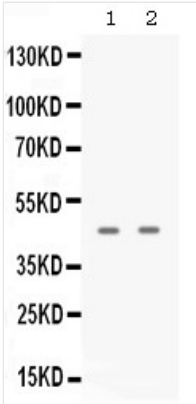
IHC (Immunohiostchemistry)

APOBEC3G was detected in paraffin-embedded sections of human tonsil tissues using rabbit anti- APOBEC3G Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



IHC (Immunohistochemisry)

APOBEC3G was detected in paraffin-embedded sections of human pancreatic cancer tissues using rabbit anti- APOBEC3G Antigen Affinity purified polyclonal antibody at 1 ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)

Western blot analysis of APOBEC3G expression in A431 whole cell lysates (lane 1), and JURKAT whole cell lysates (lane 2). APOBEC3G at 46KD was detected using rabbit anti-APOBEC3G Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-APOBEC3G antibody | Rabbit IgG polyclonal antibody for DNA dC->dU-editing enzyme APOBEC-3G (APOBEC3G) detection.<br>Background: APOBEC3G (apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G) is a human enzyme encoded by the APOBEC3G gene. This gene is a member of the cytidine deaminase gene family. It is one of seven related genes or pseudogenes found in a cluster, thought to result from gene duplication, on chromosome 22. Members of the cluster encode proteins that are structurally and functionally related to the C to U RNA-editing cytidine deaminase APOBEC1. It is thought that the proteins may be RNA editing enzymes and have roles in growth or cell cycle control. The protein encoded by this gene has been found to be a specific inhibitor of human immunodeficiency virus-1 (HIV-1) infectivity. |
| References                                             | 1. Chelico L, Prochnow C, Erie DA, Chen XS, Goodman MF (2011)."Structural model for deoxycytidine deaminaton mechanism of the HIV-1 inactivation enzyme APOBEC3G". The Journal of Biological Chemistry 285(21): 16195-205.<br>2. Li X, Ma J, Zhang Q, Yin X, Zhai C, You X, Yu L, Guo F, Zhao L, Li Z, Zeng Y, Cen S (2011). "Functional analysis of the two cytidine deaminase domains in APOBEC3G". Virology 414 (2): 130-136.                                                                                                                                                                                                                                                                                                                                                                                                |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                      |
|----------------------------------|----------------------------------------------------------------------|
| NCBI GI #                        | 13399304                                                             |
| NCBI GeneID                      | 60489                                                                |
| NCBI Accession #                 | NP_068594.1                                                          |
| NCBI GenBank Nucleotide #        | NM_021822.3                                                          |
| UniProt Accession #              | Q9HC16; Q45F02; Q5TF77; Q7Z2N1; Q7Z2N4; Q9H9H8; B2RDR9               |
| Molecular Weight                 | 9,386 Da                                                             |
| NCBI Official Full Name          | DNA dC->dU-editing enzyme APOBEC-3G                                  |
| NCBI Official Synonym Full Names | apolipoprotein B mRNA editing enzyme catalytic subunit 3G            |
| NCBI Official Symbol             | APOBEC3G                                                             |
| NCBI Official Synonym Symbols    | A3G; ARCD; ARP9; ARP-9; CEM15; CEM-15; MDS019; bK150C2.7; dJ494G10.1 |
| NCBI Protein Information         | DNA dC->dU-editing enzyme APOBEC-3G                                  |
| UniProt Protein Name             | DNA dC->dU-editing enzyme APOBEC-3G                                  |
| UniProt Gene Name                | <b>APOBEC3G</b>                                                      |
| UniProt Synonym Gene Names       | APOBEC-related protein; ARCD; ARP-9; CEM15; A3G                      |
| UniProt Entry Name               | ABC3G_HUMAN                                                          |

**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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/apobec3g-antibody-immunohistochemistry-western-blot-elisa/46636>