# Rabbit anti-Human APOBEC3G Polyclonal Antibody | anti-APOBEC3G antibody

APOBEC3G Antibody

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA40348** | **Rabbit** | **Human** | **Immunohistochemistry, Western Blot, ELISA** |

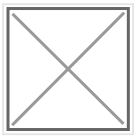
## PRODUCT SYNONYMS

APOBEC3G; Polyclonal Antibody; APOBEC3G Antibody; A3G; ARCD; ARP9; ARP-9; CEM15; CEM-15; MDS019; bK150C2.7; dJ494G10.1APOBEC-related cytidine deaminase; APOBEC-related protein; apolipoprotein B mRNA editing enzyme; catalytic polypeptide-like 3G; anti-APOBEC3G antibody

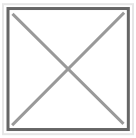
## PRODUCT SPECIFICATIONS

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| **Host** | Rabbit |
| **Reactivity** | Human |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Specificity** | APOBEC3G antibody will also detect the APOBEC3F isoform. |
| **Purity/Purification** | APOBEC3G Antibody is affinity chromatography purified via peptide column. |
| **Form/Format** | Liquid |
| **Concentration** | 1 mg/mL (varies by lot) |
| **Sequence Length** | 384 |
| **Applicable Applications for anti-APOBEC3G antibody** | IHC (Immunohistochemistry), WB (Western Blot), ELISA |
| **Conjugate** | Unconjugated |
| **Immunogen** | APOBEC3G antibody was raised against a synthetic peptide corresponding to 15 amino acids near the amino-terminus of human APOBEC3G. |
| **Buffer** | APOBEC3G Antibody is supplied in PBS containing 0.02% sodium azide. |
| **Preparation and Storage** | APOBEC3G antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |

## IMAGES



**IHC (Immunohiostchemistry)**
Immunohistochemical staining of human spleen using APOBEC3G antibody at 1 μg/mL.



**WB (Western Blot)**
Western blot analysis of APOBEC3G expression in Caco-2 cell lysate in the (A), absence and (B) presence of blocking peptide with APOBEC3G antibody at 5 μg/mL.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-APOBEC3G antibody** | APOBEC3G Antibody: The Apoliprotein B mRNA-editing, enzyme-catalytic, polypeptide-like (APOBEC) 3 is a multi-isoform member of the cytidine deaminase family of enzymes that act on monomeric nucleoside and nucleotide substrates. Similar to TRIM5? which targets incoming retroviral capsids, APOBEC3 plays a major role in cellular defense against retroviral infection as at least two isoforms, APOBEC3G and to a lesser extent APOBEC3F, can be incorporated HIV-1 virions and induce hypermutation in the newly synthesized viral DNA and thus destabilize the viral genome. This innate mechanism of retroviral resistance is counteracted by the HIV-1 Vif protein by inducing the ubiquitization and degradation of APOBEC3G; a single amino acid substitution (D128K) blocks APOBEC3G depletion without affecting its inhibitory activity. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 13399304 |
| **NCBI GeneID** | 60489 |
| **NCBI Accession #** | NP_068594 |
| **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 polypeptide-like 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; deoxycytidine deaminase; APOBEC-related protein 9; DNA dC->dU editing enzyme; phorbolin-like protein MDS019; APOBEC-related cytidine deaminase; apolipoprotein B mRNA editing enzyme cytidine deaminase; apolipoprotein B editing enzyme catalytic polypeptide-like 3G; apolipoprotein B mRNA-editing enzyme catalytic polypeptide 3G |
| **UniProt Protein Name** | DNA dC->dU-editing enzyme APOBEC-3G |
| **UniProt Gene Name** | **APOBEC3G** |
| **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://stage.aaabiotech.com/polyclonal/apobec3g-antibody-immunohistochemistry-western-blot-elisa/40348