

## Product datasheet for **TA306155**

### **APOBEC3G Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 5 ug/mL, ICC: 1 ug/mL
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	APOBEC3G antibody was raised against a synthetic peptide corresponding to 15 amino acids near the amino-terminus of human APOBEC3G APOBEC3G antibody will also detect the APOBEC3F isoform.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	apolipoprotein B mRNA editing enzyme catalytic subunit 3G
Database Link:	<a href="#">NP_068594</a> <a href="#">Entrez Gene 60489 Human</a> <a href="#">Q9HC16</a>



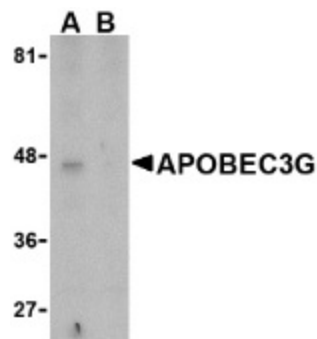
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**Background:**

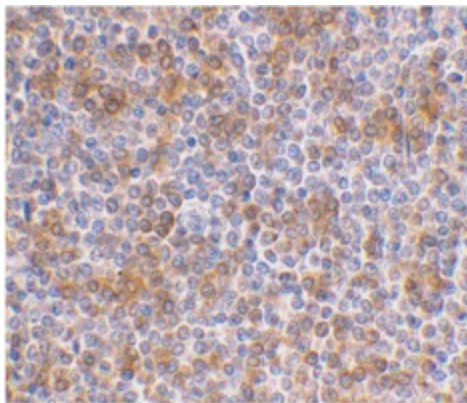
The Apolipoprotein B mRNA-editing, enzyme-catalytic, polypeptide-like (APOBEC) 3 is a multi-isoform member of the cytidine deaminase family of enzymes that act on monomeric nucleoside and nucleotide substrates (1). Similar to TRIM5alpha which targets incoming retroviral capsids, APOBEC3 plays a major role in cellular defense against retroviral infection (2,3) 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 (4,5). 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 (6).

**Synonyms:**

A3G; ARCD; ARP-9; ARP9; bK150C2.7; CEM-15; CEM15; dJ494G10.1; MDS019

**Product images:**


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 ug/ml.



Immunohistochemical staining of human spleen using APOBEC3G antibody at 1 ug/mL