



## Anti-APOBEC3G (N-terminal) polyclonal antibody (CPBT-67858RH)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

#### Product Overview

This product recognises an epitope within the N-terminal region (NT) of APOBEC3G (apolipoprotein B mRNA-editing, enzyme-catalytic, polypeptide-like 3G), a 46kDa multi-isoform endogenous deoxycytidine deaminase, which plays a major role in the defence of T lymphocytes against retroviral infection. The incorporation of APOBEC3G into HIV-1 virion DNA, results in the deamination of dC to dU in minus-strand viral DNA during reverse transcription, thereby generating G to A hypermutations in the newly-synthesised viral DNA. The effect of APOBEC3G is counteracted by the HIV protein Vif, thought to induce the degradation of APOBEC3G through a ubiquitin- dependant proteasomal pathway. also detects the APOBEC3F isoform (apolipoprotein B mRNA-editing, enzyme- catalytic, polypeptide-like 3F).

<b>Specificity</b>	APOBEC3G
<b>Immunogen</b>	A 15 amino acid peptide located near human APOBEC3G amino-terminus.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-P; WB
<b>Format</b>	Purified IgG - liquid
<b>Size</b>	100 µg
<b>Preservative</b>	See individual product datasheet

**Storage** in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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## GENE INFORMATION

<b>Gene Name</b>	<a href="#">APOBEC3G apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	APOBEC3G
<b>Synonyms</b>	APOBEC3G; apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G; A3G; ARCD; ARP9; ARP-9; CEM15; CEM-15; MDS019; bK150C2.7; dJ494G10.1; DNA dC->dU-editing enzyme APOBEC-3G; deoxycytidine deaminase; APOBEC-related protein 9; DNA dC->dU e
<b>Entrez Gene ID</b>	<a href="#">60489</a>
<b>Protein Refseq</b>	<a href="#">NP_068594</a>
<b>UniProt ID</b>	Q9HC16
<b>Chromosome Location</b>	22q13.1-q13.2
<b>Pathway</b>	APOBEC3G mediated resistance to HIV-1 infection; Disease; HIV Infection; Host Interactions of HIV factors; Integrated Breast Cancer Pathway; Vif-mediated degradation of APOBEC3G;
<b>Function</b>	RNA binding; cytidine deaminase activity; deoxycytidine deaminase activity; protein binding; protein homodimerization activity; zinc ion binding;