

## Product datasheet for **AP23049PU-N**

### **APOBEC3G (C-term) Goat Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/16000. <b>Immunohistochemistry on Paraffin Sections:</b> 2.5 µg/ml. <b>Western Blot:</b> 0.5 - 1.5 µg/ml.
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Synthetic peptide from the C-Terminus of Human APOBEC3G (NP_068594.1). Percent identity by BLAST analysis: Human, Baboon (100%); Monkey (92%); Chimpanzee, Gorilla, Gibbon, Marmoset (83%).
Specificity:	This antibody detects APOBEC3G (C-term).
Formulation:	Tris saline, pH~7.3 State: Purified State: Liquid purified Ig fraction Stabilizer: 0.5% BSA Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	apolipoprotein B mRNA editing enzyme catalytic subunit 3G
Database Link:	<a href="#">Entrez Gene 60489 Human</a> <a href="#">Q9HC16</a>



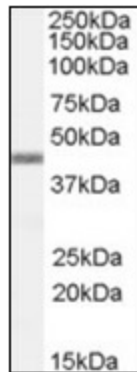
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**Background:**

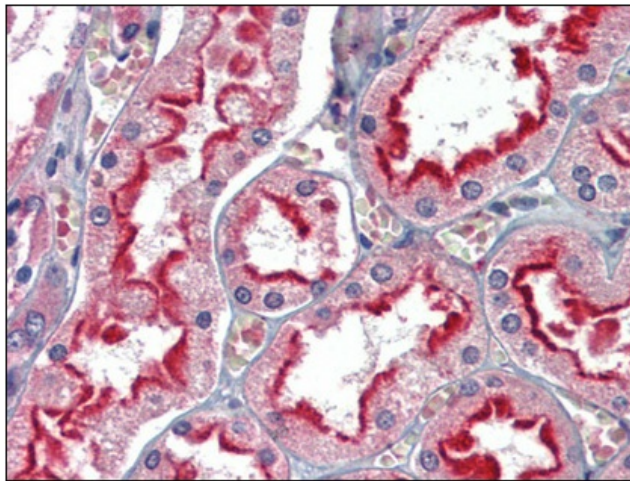
The Apolipoprotein B mRNA-editing, enzyme-catalytic, polypeptide-like (APOBEC) 3 is a multi-isoform member of the cytidine deaminase family of enzymes that act on monomeric nucleoside and nucleotide substrates. Similar to TRIM5a which targets incoming retroviral capsids, APOBEC3 plays a major role in 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.

**Synonyms:**

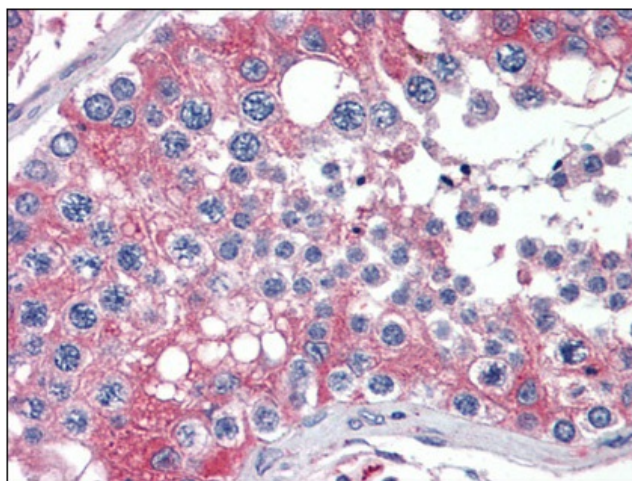
ARP9, CEM15, MDS019, APOBEC-3G, ARCD

**Product images:**


Western Blot Image: Antibody (0.5 ug/ml) staining of Daudi lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Immunohistochemistry Image: Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunohistochemistry Image: Human Testis:  
Formalin-Fixed, Paraffin-Embedded (FFPE)