

## Recombinant Human APOBEC3G 293 Cell Lysate

**Cat. No.** APOBEC3G-8784HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G (APOBEC3G) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

**Gene Name** [APOBEC3G apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G \[ Homo sapiens \]](#)

**Official Symbol** [APOBEC3G](#)

**Synonyms** [APOBEC3G](#); [apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G](#); [DNA dC->dU-editing enzyme APOBEC-3G](#); [bK150C2.7](#); [CEM15](#); [dJ494G10.1](#); [FLJ12740](#); [MDS019](#); [DNA dC->dU-editing enzyme APOBEC-3G](#); [APOBEC-related protein 9](#); [dU editing enzyme](#); [phorbolin-like protein MDS019](#); [APOBEC-related cytidine deaminase](#); [apolipoprotein B mRNA editing enzyme cytidine deaminase](#); [ARCD](#); [ARP9](#); [ARP-9](#); [CEM-15](#);

**Gene ID** [60489](#)

**mRNA Refseq** [NM\\_021822](#)

**Protein Refseq** [NP\\_068594](#)

**MIM** [607113](#)

**UniProt ID** [Q9HC16](#)

**Chromosome Location** [22q13.1-q13.2](#)

**Pathway** [APOBEC3G mediated resistance to HIV-1 infection, organism-specific biosystem](#); [Disease, organism-specific biosystem](#); [HIV Infection, organism-specific biosystem](#);

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Host Interactions of HIV factors, organism-specific biosystem; Vif-mediated degradation of APOBEC3G, organism-specific biosystem;

**Function**

RNA binding; cytidine deaminase activity; hydrolase activity; metal ion binding; protein homodimerization activity; zinc ion binding;

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