

Recombinant Human APOBEC3A, GST-tagged

Cat. No. APOBEC3A-9753H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human APOBEC3A protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-61a.a.
Description	This gene is a member of the cytidine deaminase gene family. It is one of seven related genes or pseudogenes found in a cluster, thought to result from gene duplication, on chromosome 22. Members of the cluster encode proteins that are structurally and functionally related to the C to U RNA-editing cytidine deaminase APOBEC1. The protein encoded by this gene lacks the zinc binding activity of other family members. The protein plays a role in immunity, by restricting transmission of foreign DNA such as viruses. One mechanism of foreign DNA restriction is deamination of foreign double-stranded DNA cytidines to uridines, which leads to DNA degradation. However, other mechanisms are also thought to be involved, as anti-viral effect is not dependent on deaminase activity. Two transcript variants encoding different isoforms have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM

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GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name APOBEC3A apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3A [Homo sapiens]

Official Symbol APOBEC3A

Synonyms APOBEC3A; apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3A; ARP3; phorbolin I; PHRBN;

Gene ID 140561

MIM 607109

UniProt ID P31941

Chromosome Location 22q13.1-q13.2

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