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Human APOBEC3A Recombinant Protein Expressed in *E. coli*

Cat: MPYF-0722-KX36

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

This product is a Human APOBEC3A recombinant protein expressed in *E. coli*. The protein is for research use only and is not appr oved for use in humans or in clinical diagnosis.

Product Specifications

Target Protein	APOBEC3A
Species	Human
Protein Class	Virus-host interaction
Molecular Weight	39.0kDa

Product Description

Expression Systems	*E. coli*
Protein Tag	6xHis-SUMO tag at the N-terminus
Protein Length	Full Length
Protein Form	Soluble
Form	LYOPH
Reconstitution	Please see Certificate of Analysis for specific instructions.
Buffer	Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Purity	>90% as determined by SDS-PAGE
Storage	Aliquot and store at -20°C or lower. For long term storage, we recommend to store a t -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein	APOBEC3A
Full Name	Apolipoprotein B mRNA editing enzyme catalytic subunit 3A
Introduction	This gene is a member of the cytidine deaminase gene family. It is one of seven rel ated genes or pseudogenes found in a cluster, thought to result from gene duplicati on, on chromosome 22. Members of the cluster encode proteins that are structurally

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	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.
Alternative Names	A3A; ARP3; PHRBN; bK150C2.1; DNA dC->dU-editing enzyme APOBEC-3A; apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3A; phorbolin-1; probable DNA dC->dU-editing enzyme APOBEC-3A
Gene ID	200315
UniProt ID	P31941

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