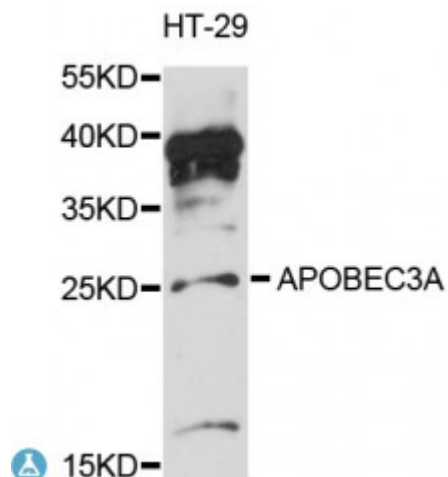


Anti-APOBEC3A Antibody



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.

Model	STJ114275
Host	Rabbit
Reactivity	Human
Applications	WB
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-199 of human APOBEC3A (NP_663745.1).
Gene ID	100913187
Gene Symbol	APOBEC3A
Dilution range	WB 1:200 - 1:500
Tissue Specificity	Expressed in peripheral leukocytes with higher expression in CD14-positive phagocytic cells, Highly expressed in keratinocytes and in periphery blood monocytes, Also detected in non-lymphoid tissues including lung and adipose

tissues, Found at high levels in colorectal adenocarcinoma, Burkitt's lymphoma and chronic myelogenous leukemia

Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	DNA dC->dU-editing enzyme APOBEC-3A A3A
Molecular Weight	23.012 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:17343 OMIM:607109 Reactome:R-HSA-72200
Alternative Names	DNA dC->dU-editing enzyme APOBEC-3A A3A
Function	DNA deaminase (cytidine deaminase) with restriction activity against viruses, foreign DNA and mobility of retrotransposons, Exhibits antiviral activity against adeno-associated virus (AAV) and human T-cell leukemia virus type 1 (HTLV-1) and may inhibit the mobility of LTR and non-LTR retrotransposons, Selectively targets single-stranded DNA and can deaminate both methylcytosine and cytosine in foreign DNA, Can induce somatic hypermutation in the nuclear and mitochondrial DNA, May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation,
Cellular Localization	Nucleus, Cytoplasm