APOBEC3F Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	APOBEC3F, Polyclonal Antibody
Full Product Name	APOBEC3F, NT (APOBEC3F, DNA dC->dU-editing enzyme APOBEC-3F, Apolipoprotein B mRNA-editing enzyme catalytic polypeptide-like 3F) (MaxLight 650)
Product Gene Name	anti-APOBEC3F antibody
Product Synonym Names	APOBEC3F; DNA dC->dU-editing enzyme APOBEC-3F; Apolipoprotein B mRNA-editing enzyme catalytic polypeptide-like 3F
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human APOBEC3F.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	373
OMIM	608993
3D Structure	ModBase 3D Structure for Q8IUX4
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 22-48 in the N-terminal region of human APOBEC3F. UniProt Accession #Q8IUX4
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-APOBEC3F antibody	Antibodies; Enzymes; Cytidine Deaminase (APOBEC)
Applications Tested/Suitable for anti-APOBEC3F antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-APOBEC3F antibody	FC/FACS: 1:10-1:50 WB: 1:1000 IHC-P: 1:10-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-APOBEC3F antibody	MBS6274453 is an antibody targeting APOBEC3F. Also known as APOBEC3F, NT (APOBEC3F, DNA dC->dU-editing enzyme APOBEC-3F, Apolipoprotein B mRNA-editing enzyme catalytic polypeptide-like 3F) (MaxLight 650). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-APOBEC3F antibody	1. Khatua, A.K., et.al., Virology 400 (1), 68-75 (2010). 2. Koning, F.A., et.al., J. Virol. 83 (18), 9474-9485 (2009).

Other Notes	Small volumes of anti-APOBEC3F antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for APOBEC3F. It may not necessarily be applicable to this product.

NCBI GI #	161784334
NCBI GeneID	200316
NCBI Accession #	Q8IUX4.3
UniProt Primary Accession #	Q8IUX4
UniProt Secondary Accession #	Q45F03; Q6ICH3; Q7Z2N2; Q7Z2N5; B0QYD4
UniProt Related Accession #	Q8IUX4
NCBI Official Full Name	DNA dC-&gt
NCBI Official Synonym Full Names	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F
NCBI Official Symbol	APOBEC3F
NCBI Official Synonym Symbols	A3F; KA6; ARP8; BK150C2.4.MRNA
UniProt Protein Name	DNA dC->dU-editing enzyme APOBEC-3F
UniProt Synonym Protein Names	Apolipoprotein B mRNA-editing enzyme catalytic polypeptide-like 3F; A3F
Protein Family	DNA dC->dU-editing enzyme
UniProt Gene Name	APOBEC3F
UniProt Synonym Gene Names	A3F
UniProt Entry Name	ABC3F_HUMAN
NCBI Protein Information	DNA dC->dU-editing enzyme APOBEC-3F; induced upon T-cell activation; apolipoprotein B mRNA editing enzyme cytidine deaminase; apolipoprotein B editing enzyme catalytic polypeptide-like 3F; apolipoprotein B mRNA-editing enzyme catalytic polypeptide-like
NCBI Summary for APOBEC3F	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. It is thought that the proteins may be RNA editing enzymes and have roles in growth or cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

UniProt Comments for APOBEC3F	APOBEC3F: Host cellular restriction factor that may have antiviral activities against exogenous and endogenous viruses, as well as retrotransposons. After being packaged into HIV-1 virions, blocks productive infection by massively editing dC residues to dU on the DNA minus strand during reverse transcription. The editing of the minus strand DNA of HIV-1 during reverse transcription leads to G- to-A transitions in the plus strand. The inhibition of viral replication is either due to the degradation of the minus strand before its integration or to the lethality of the hypermutations. May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation. Belongs to the cytidine and deoxycytidylate deaminase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: RNA processing; Hydrolase; EC 3.5.4.- Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: apolipoprotein B mRNA editing enzyme complex; cytoplasm; ribonucleoprotein complex Molecular Function: protein binding; zinc ion binding; RNA binding; cytidine deaminase activity Biological Process: negative regulation of retroviral genome replication; base conversion or substitution editing; negative regulation of viral genome replication; innate immune response; cytidine deamination; positive regulation of defense response to virus by host; negative regulation of viral reproduction; defense response to virus
Research Articles on APOBEC3F	**1.** Authors found that APOBEA3G, APOBEA3F, and APOBEA3H-hapII, but not APOBEA3D, were susceptible to HIV-2 Vif-induced degradation.
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