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APOBEC3C Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP10252b

Specification

APOBEC3C Antibody (C-term) Blocking peptide - Product Information

Primary Accession	Q9NRW3
Other Accession	NP_055323.2

APOBEC3C Antibody (C-term) Blocking peptide - Additional Information

Gene ID 27350

Other Names
DNA dC->dU-editing enzyme APOBEC-3C, A3C, 354-, APOBEC1-like, Phorbolin I, APOBEC3C, APOBEC1L, PBI

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

APOBEC3C Antibody (C-term) Blocking peptide - Protein Information

Name APOBEC3C

Synonyms APOBEC1L, PBI

Function
DNA deaminase (cytidine deaminase) which acts as an inhibitor of retrovirus replication and retrotransposon mobility via deaminase- dependent and -independent mechanisms. After the penetration of retroviral nucleocapsids into target cells of infection and the initiation of reverse transcription, it can induce the conversion of cytosine to uracil in the minus-sense single-strand viral DNA, leading to G-to-A hypermutations in the subsequent plus-strand viral DNA. The resultant detrimental levels of mutations in the proviral genome, along with a deamination-independent mechanism that works prior to the proviral integration, together exert efficient antiretroviral effects in infected target cells. Selectively targets single-stranded DNA and does not deaminate double-stranded DNA or single- or double-stranded RNA. Exhibits antiviral activity against simian immunodeficiency virus (SIV), hepatitis B virus (HBV), herpes simplex virus 1 (HHV-1) and Epstein-Barr virus (EBV) and may inhibit the mobility of LTR and non- LTR retrotransposons. May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation.

Cellular Location
Nucleus. Cytoplasm

Tissue Location
Expressed in spleen, testes, peripherical blood lymphocytes, heart, thymus, prostate and ovary

APOBEC3C Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

APOBEC3C Antibody (C-term) Blocking peptide - Images

APOBEC3C Antibody (C-term) Blocking peptide - Background

This gene is a member of the cytidine deaminase genefamily. It is one of seven related genes or pseudogenes found in acluster thought to result from gene duplication, on chromosome 22.Members of the cluster encode proteins that are structurally andfunctionally related to the C to U RNA-editing cytidine deaminaseAPOBEC1. It is thought that the proteins may be RNA editing enzymesand have roles in growth or cell cycle control. [provided byRefSeq].

APOBEC3C Antibody (C-term) Blocking peptide - References

Albin, J.S., et al. Expert Rev Mol Med 12, E4 (2010) :Prochnow, C., et al. Sci. China, C, Life Sci. 52(10):893-902(2009)Lin, H., et al. Invest. Ophthalmol. Vis. Sci. 50(9):4436-4443(2009)Stauch, B., et al. Proc. Natl. Acad. Sci. U.S.A. 106(29):12079-12084(2009)Ross, S.R. PLoS Pathog. 5 (4), E1000347 (2009) :