

<http://www.uniprot.org/citations/22807680> target="_blank">22807680, PubMed:23001005, PubMed:23097438, PubMed:23152537, PubMed:34774569). 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 (PubMed:15141007). 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 (PubMed:15141007). Selectively targets single-stranded DNA and does not deaminate double-stranded DNA or single- or double-stranded RNA (PubMed:15141007). Exhibits antiviral activity also against hepatitis B virus (HBV), equine infectious anemia virus (EIAV), xenotropic MuLV- related virus (XMRV) and simian foamy virus (SFV) and may inhibit the mobility of LTR and non-LTR retrotransposons (PubMed:16378963, PubMed:16527742, PubMed:19458006, PubMed:20062055, PubMed:20335265). May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation (PubMed:21496894).

Cellular Location

Cytoplasm. Cytoplasm, P-body

Tissue Location

Widely expressed. Highly expressed in ovary.

APOBEC3F Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

APOBEC3F Antibody (N-term) Blocking Peptide - Images

APOBEC3F Antibody (N-term) Blocking Peptide - Background

This protein 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.

APOBEC3F Antibody (N-term) Blocking Peptide - References

Khatua,A.K., et.al., Virology 400 (1), 68-75 (2010)Koning,F.A., et.al., J. Virol. 83 (18), 9474-9485 (2009)