

APOBEC3D Antibody (N-term) Blocking Peptide

Synthetic peptide

Catalog # BP18763a

Specification

APOBEC3D Antibody (N-term) Blocking Peptide - Product Information

Primary Accession

[Q96AK3](#)**APOBEC3D Antibody (N-term) Blocking Peptide - Additional Information****Other Names**

DNA dC->dU-editing enzyme APOBEC-3D, A3D, 354-, APOBEC3D

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.

APOBEC3D Antibody (N-term) Blocking Peptide - Protein InformationName APOBEC3D ([HGNC:17354](#))**Function**

DNA deaminase (cytidine deaminase) which acts as an inhibitor of retrovirus replication and retrotransposon mobility via deaminase- dependent and -independent mechanisms (PubMed:16920826, PubMed:20062055, PubMed:21835787). Exhibits antiviral activity against HIV-1. 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:16920826). 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. Inhibits also the mobility of LTR and non-LTR retrotransposons (PubMed:27428332).

Cellular Location

Cytoplasm. Cytoplasm, P-body

Tissue Location

Expressed in lymphoid organs. Also detected in non- lymphoid tissues including lung.

APOBEC3D Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

APOBEC3D Antibody (N-term) Blocking Peptide - Images

APOBEC3D Antibody (N-term) Blocking Peptide - Background

Unknown. Unable to reduce HIV-1 infectivity in vitro.

APOBEC3D Antibody (N-term) Blocking Peptide - References

Zhang, W., et al. PLoS ONE 3 (12), E3963 (2008) :Dang, Y., et al. J. Virol. 80(21):10522-10533(2006)Stenglein, M.D., et al. J. Biol. Chem. 281(25):16837-16841(2006)Conticello, S.G., et al. Mol. Biol. Evol. 22(2):367-377(2005)Harris, R.S., et al. Nat. Rev. Immunol. 4(11):868-877(2004)