

Product datasheet

Recombinant Human APOBEC3F protein ab165861

1 Image

Overview

Product name	Recombinant Human APOBEC3F protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Species	Human
Sequence	YTSWSPCPECAGEVAEFLARHSNVNLTIFTARLYYFW DTDYQEGLRSLSQ EGASVEIMGYKDFKYCWENFVYNDDEPFKPKWGLKY NFLFLDSKLQEIL
Amino acids	274 to 372
Tags	GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab165861** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Western blot ELISA
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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General Info

Function

DNA deaminase (cytidine deaminase) which acts as an inhibitor of retrovirus replication and retrotransposon mobility via deaminase-dependent and -independent mechanisms. Exhibits antiviral activity against vif-deficient 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. 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 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. May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation.

Tissue specificity

Widely expressed. Highly expressed in ovary.

Sequence similarities

Belongs to the cytidine and deoxycytidylate deaminase family.
Contains 2 CMP/dCMP-type deaminase domains.

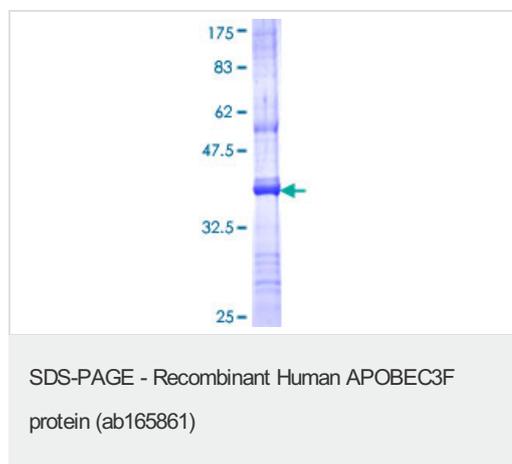
Domain

The CMP/dCMP deaminase domain 1 mediates RNA binding, RNA-dependent oligomerization and virion incorporation whereas the CMP/dCMP deaminase domain 2 confers deoxycytidine deaminase activity and substrate sequence specificity.

Cellular localization

Cytoplasm. Cytoplasm, P-body.

Images



ab165861 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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