

Anti-APOBEC3D Antibody

Catalog # AP54047

Product Information

Application	WB
Primary Accession	Q96AK3
Other Accession	Q8IUX4
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46598

Additional Information

Gene ID	140564
Other Names	APOBEC3D; Probable DNA dC->dU-editing enzyme APOBEC-3D; APOBEC3F; DNA dC->dU-editing enzyme APOBEC-3F; Apolipoprotein B mRNA-editing enzyme catalytic polypeptide-like 3F
Target/Specificity	Recognizes endogenous levels of APOBEC3D protein.
Dilution	WB~~1/500 - 1/1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	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. Also inhibits the mobility of LTR and non-LTR retrotransposons (PubMed: 27428332).

Cellular Location

Cytoplasm. Cytoplasm, P-body

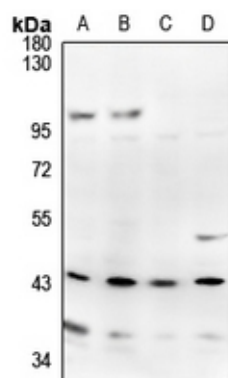
Tissue Location

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

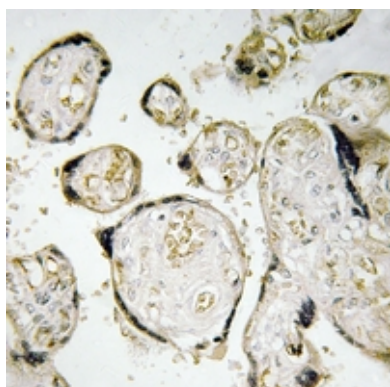
Background

Rabbit polyclonal antibody to APOBEC3D

Images



Western blot analysis of APOBEC3D expression in H1792 (A), SKOVCA3 (B), H9C2 (C), MEF (D) whole cell lysates.



Immunohistochemical analysis of APOBEC3D staining in human placenta formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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