

Datasheet for ABIN1881066

anti-APOBEC3A antibody (N-Term)[Go to Product page](#)**1** Image**5** Publications

Overview

Quantity:	400 µL
Target:	APOBEC3A
Binding Specificity:	AA 20-49, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This APOBEC3A antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This APOBEC3A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 20-49 amino acids from the N-terminal region of human APOBEC3A.
Clone:	RB42401
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	APOBEC3A
Alternative Name:	APOBEC3A (APOBEC3A Products)
Background:	This gene is a member of the cytidine deaminase gene family. It is one of seven related genes

Target Details

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. The protein encoded by this gene lacks the zinc binding activity of other family members. The protein plays a role in immunity, by restricting transmission of foreign DNA such as viruses. One mechanism of foreign DNA restriction is deamination of foreign double-stranded DNA cytidines to uridines, which leads to DNA degradation. However, other mechanisms are also thought to be involved, as anti-viral effect is not dependent on deaminase activity. One allele of this gene results from the deletion of approximately 29.5 kb of sequence between this gene, APOBEC3A, and the adjacent gene APOBEC3B. The breakpoints of the deletion are within the two genes, so the deletion allele is predicted to have the promoter and coding region of APOBEC3A, but the 3' UTR of APOBEC3B.

Molecular Weight:	23012
NCBI Accession:	NP_001180218 , NP_663745
UniProt:	P31941

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

Product cited in:	Thielen, McNevin, McElrath, Hunt, Klein, Lingappa: "Innate immune signaling induces high levels of TC-specific deaminase activity in primary monocyte-derived cells through expression of
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APOBEC3A isoforms." in: **The Journal of biological chemistry**, Vol. 285, Issue 36, pp. 27753-66, (2010) ([PubMed](#)).

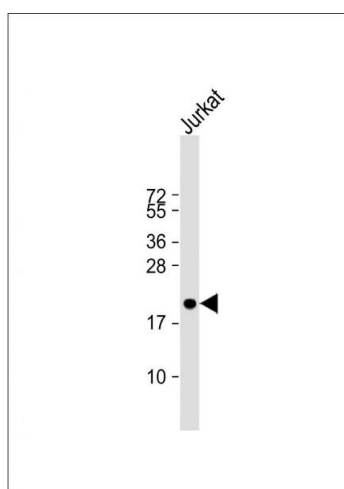
Berger, Münk, Schweizer, Cichutek, Schüle, Flory: "Interaction of Vpx and apolipoprotein B mRNA-editing catalytic polypeptide 3 family member A (APOBEC3A) correlates with efficient lentivirus infection of monocytes." in: **The Journal of biological chemistry**, Vol. 285, Issue 16, pp. 12248-54, (2010) ([PubMed](#)).

Stenglein, Burns, Li, Lengyel, Harris: "APOBEC3 proteins mediate the clearance of foreign DNA from human cells." in: **Nature structural & molecular biology**, Vol. 17, Issue 2, pp. 222-9, (2010) ([PubMed](#)).

Abe, Ochi, Maekawa, Hatakeyama, Tsuge, Kitamura, Kimura, Miki, Mitsui, Hiraga, Imamura, Fujimoto, Takahashi, Nakamura, Kumada, Chayama: "Effects of structural variations of APOBEC3A and APOBEC3B genes in chronic hepatitis B virus infection." in: **Hepatology research : the official journal of the Japan Society of Hepatology**, Vol. 39, Issue 12, pp. 1159-68, (2009) ([PubMed](#)).

Prochnow, Bransteitter, Chen: "APOBEC deaminases-mutases with defensive roles for immunity." in: **Science in China. Series C, Life sciences / Chinese Academy of Sciences**, Vol. 52, Issue 10, pp. 893-902, (2009) ([PubMed](#)).

Images



Western Blotting

Image 1. Anti-OBEC3A Antibody (N-term) at 1:1000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 23 kDa
Blocking/Dilution buffer: 5 % NFDM/TBST.