



APOBEC3A Polyclonal Antibody

Catalog No	YP-Ab-01534
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	APOBEC3A
Immunogen	The antiserum was produced against synthesized peptide derived from human APOBEC3A. AA range:27-76
Specificity	APOBEC3A Polyclonal Antibody detects endogenous levels of APOBEC3A protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Phorbolin-1;PHO1;EC:3.5.4.38;DNA dC->dU-editing enzyme APOBEC-3A; ARP3;APOBEC3A;Probable DNA dC->dU-editing enzyme APOBEC-3A
Observed Band	26kD
Calculated Molecular Weight	26kD
Cell Pathway	Nucleus. Cytoplasm.
Tissue Specificity	Expressed in peripheral leukocytes with higher expression in CD14-positive phagocytic cells. Highly expressed in keratinocytes and in periphery blood monocytes. Also detected in non-lymphoid tissues including lung and adipose tissues. Found at high levels in colorectal adenocarcinoma, Burkitt's lymphoma and chronic myelogenous leukemia.
Function	cofactor:Zinc.,function:Lacks cytidine deaminase activity, at least on RNA molecules (monomeric nucleoside substrates or synthetic apoB RNA template). Unable to reduce HIV-1 infectivity in vitro.,miscellaneous:It is one of seven related genes or pseudogenes found in a cluster, thought to result from gene duplication, on chromosome 22.,similarity:Belongs to the cytidine and deoxycytidylate deaminase family.,tissue specificity:Expressed in peripheral



leukocytes and keratinocytes.,

Background

This gene 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. 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. Two transcript variants encoding different isoforms have been found for this gene. [provided b

matters needing attention

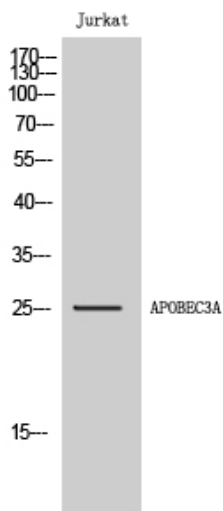
Avoid repeated freezing and thawing!

Usage suggestions

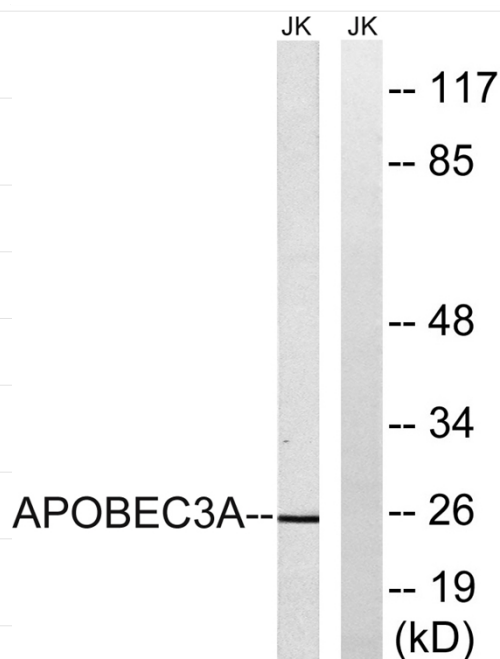
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



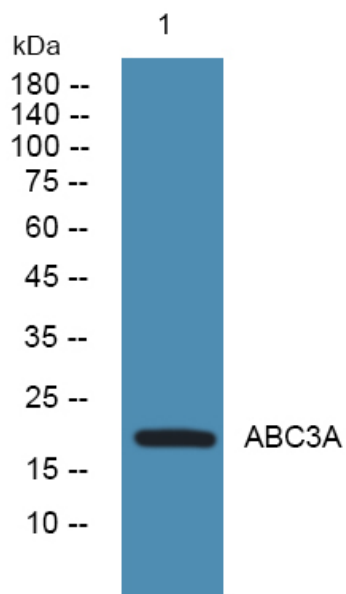
Products Images



Western Blot analysis of Jurkat cells using APOBEC3A Polyclonal Antibody



Western blot analysis of lysates from Jurkat cells, using APOBEC3A Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from K562 cells,
primary antibody was diluted at 1:1000, 4°over night