

## **APOBEC3A Polyclonal Antibody**

**Catalog # AP68453** 

# **Specification**

## **APOBEC3A Polyclonal Antibody - Product Information**

Application WB
Primary Accession P31941
Reactivity Human
Host Rabbit
Clonality Polyclonal

## **APOBEC3A Polyclonal Antibody - Additional Information**

Gene ID 100913187:200315

**Other Names** 

APOBEC3A; Probable DNA dC->dU-editing enzyme APOBEC-3A; Phorbolin-1

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

**Format** 

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions** 

-20°C

# **APOBEC3A Polyclonal Antibody - Protein Information**

## Name APOBEC3A

#### **Function**

DNA deaminase (cytidine deaminase) with restriction activity against viruses, foreign DNA and mobility of retrotransposons. Exhibits antiviral activity against adeno-associated virus (AAV) and human T- cell leukemia virus type 1 (HTLV-1) and may inhibit the mobility of LTR and non-LTR retrotransposons. Selectively targets single-stranded DNA and can deaminate both methylcytosine and cytosine in foreign DNA. Can induce somatic hypermutation in the nuclear and mitochondrial DNA. May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation.

### **Cellular Location**

Nucleus. Cytoplasm.

#### **Tissue Location**

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.

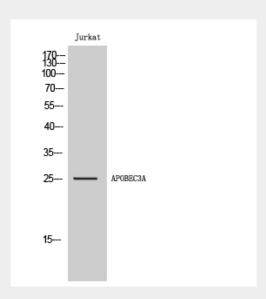


# **APOBEC3A Polyclonal Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# **APOBEC3A Polyclonal Antibody - Images**



Western Blot analysis of Jurkat cells using APOBEC3A Polyclonal Antibody

## APOBEC3A Polyclonal Antibody - Background

DNA deaminase (cytidine deaminase) with restriction activity against viruses, foreign DNA and mobility of retrotransposons. Exhibits antiviral activity against adeno- associated virus (AAV) and human T-cell leukemia virus type 1 (HTLV-1) and may inhibit the mobility of LTR and non-LTR retrotransposons. Selectively targets single-stranded DNA and can deaminate both methylcytosine and cytosine in foreign DNA. Can induce somatic hypermutation in the nuclear and mitochondrial DNA. May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation.