



Rabbit Anti-APOBEC3B antibody

SL12494R

Product Name:	APOBEC3B
Chinese Name:	载LipoproteinB-mRNA编辑酶复合物3B抗体
Alias:	APOBEC1L; Apolipoprotein B mRNA editing enzyme catalytic polypeptide like 3B; apolipoprotein B mRNA editing enzyme, catalytic;ARCD3; ARP4; bK150C2.2; Cytidine deaminase; DJ742C19.2; FLJ21201; Phorbolin 1 related protein; Phorbolin 2; Phorbolin 2/3; Phorbolin 3; PHRBNL; Probable DNA dC>dU editing enzyme APOBEC3B.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	46kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human APOBEC3B:1-100/382
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	APOBEC proteins inhibit retroviruses by deaminating cytosine residues of viral RNA and DNA. The seven APOBEC3 genes or pseudogenes are found in a cluster thought to result from gene duplication on chromosome 22. APOBEC3 proteins are thought to be

RNA editing enzymes and have roles in cell growth. APOBEC3B, also known as phorbolin-1-related protein or phorbolin-2/3, is a 382 amino acid protein belonging to the cytidine and deoxycytidylate deaminase family. APOBEC3B lacks cytidine deaminase activity on RNA molecules, but has been shown to bind to apoB and AU-rich RNAs. APOBEC3B forms a homodimer and interacts with APOBEC3G. APOBEC3B is expressed at moderate levels in heart, testis, thymus, prostate, ovary, spleen and peripheral blood leukocytes.

Function:

APOBEC3B is a member of the cytidine deaminase gene family. However, it lacks cytidine deaminase activity, at least on RNA molecules (monomeric nucleoside substrates or synthetic apoB, NF1 and NAT1 RNA template). It binds to apoB and AU-rich RNAs. It is unable to reduce HIV-1 infectivity in vitro.

Subunit:

Homodimer. Interacts with APOBEC3G. Does not interact with APOBEC1.

Subcellular Location:

Nucleus.

Tissue Specificity:

Expressed at high and moderate levels in peripheral blood leukocytes, spleen, testes, heart, thymus, prostate and ovary. Also expressed at low levels in several other tissues.

Similarity:

It is one of seven related genes or pseudogenes found in a cluster, thought to result from gene duplication, on chromosome 22.

Belongs to the cytidine and deoxycytidylate deaminase family.

Contains 2 CMP/dCMP deaminase zinc-binding domains

SWISS:

Q9UH17

Gene ID:

9582

Database links:

[Entrez Gene: 9582](#)Human

[Entrez Gene: 315137](#)Rat

[Omim: 607110](#)Human

[SwissProt: Q9UH17](#)Human

[SwissProt: P60705](#)Rat

[Unigene: 226307](#)Human

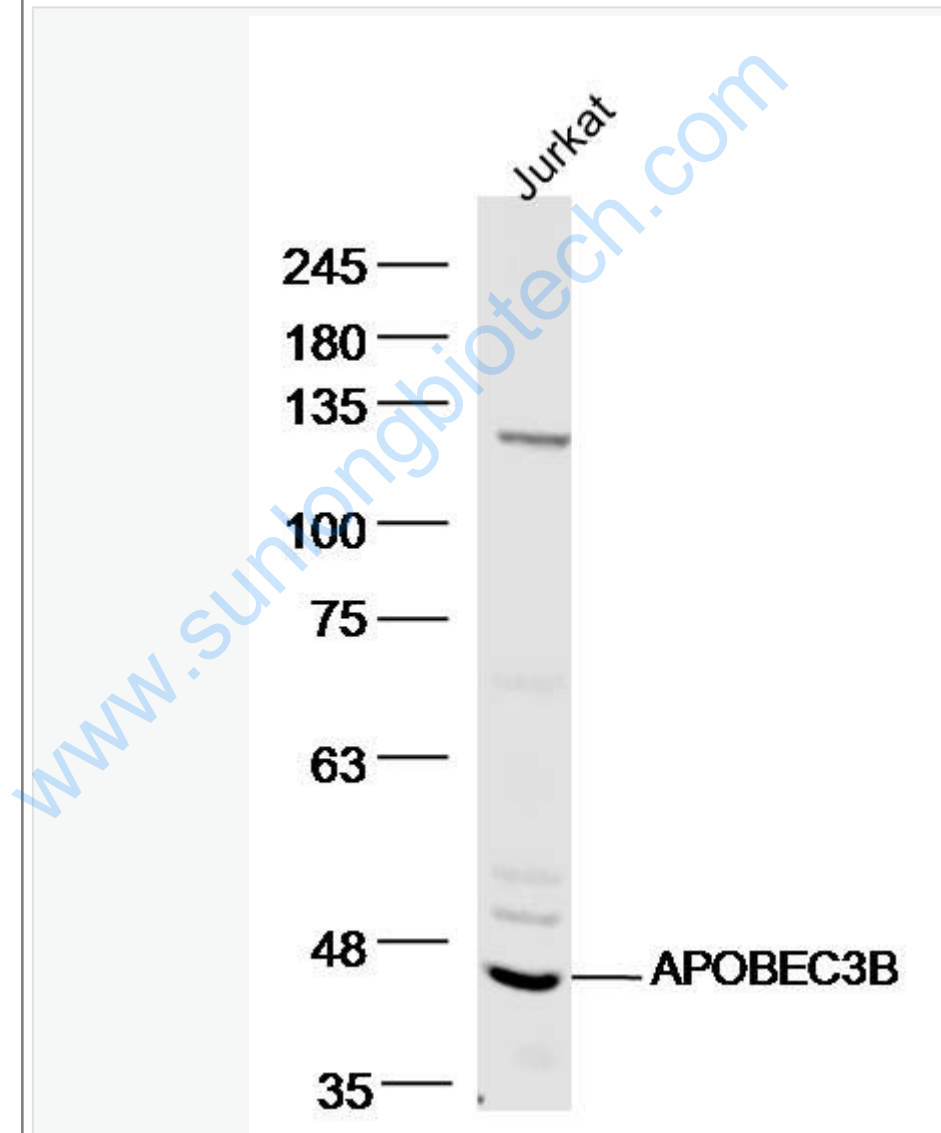
[Unigene: 658626](#)Human

[Unigene: 29180](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



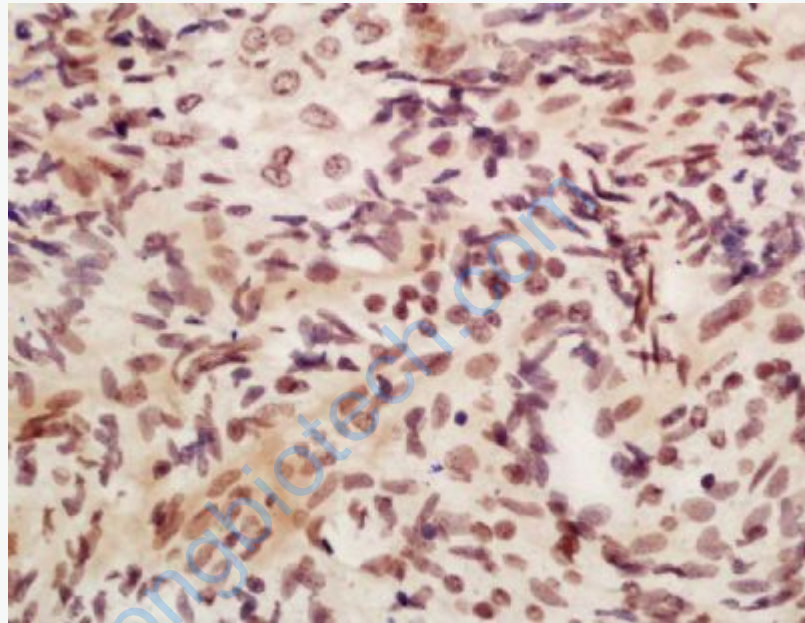
Sample: jurkat(human)cell Lysate at 40 ug

Primary: Anti-APOBEC3B (SL12494R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 46kD

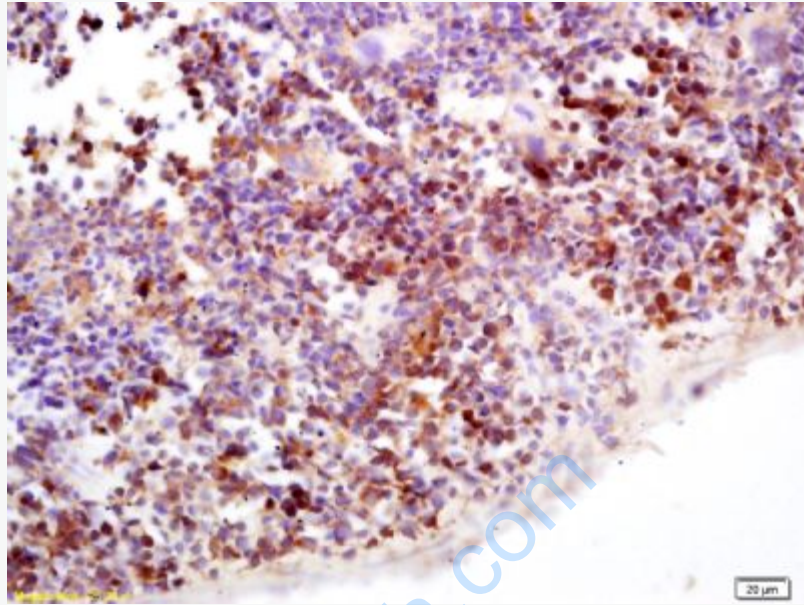
Observed band size: 46 kD



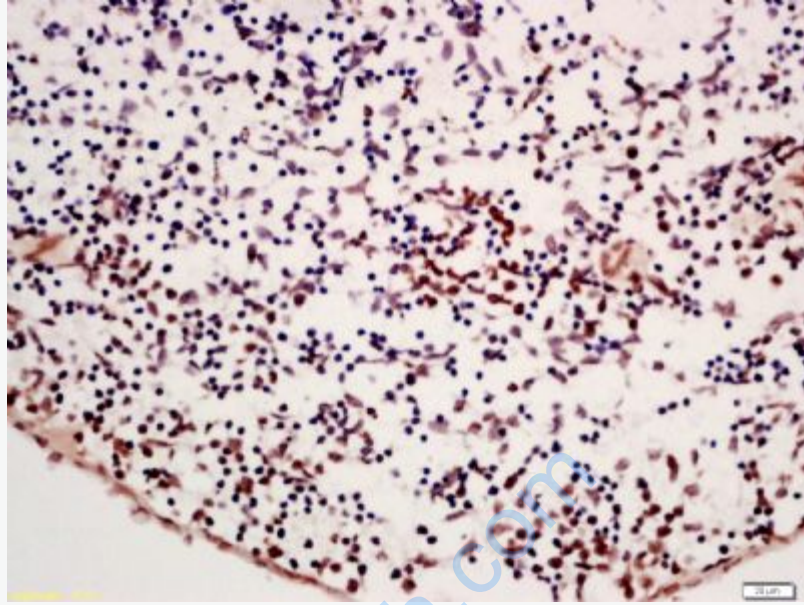
Tissue/cell: Rat ovary tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-APOBEC3B Polyclonal Antibody, Unconjugated(SL12494R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat spleen tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-APOBEC3B Polyclonal Antibody, Unconjugated(SL12494R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: Mouse spleen tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-APOBEC3B Polyclonal Antibody, Unconjugated(SL12494R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining