

**Goat Anti-APOBEC3D Antibody (internal region)**  
**Purified Goat Polyclonal Antibody**  
**Catalog # AF4152a****Specification**

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**Goat Anti-APOBEC3D Antibody (internal region) - Product Information**

|                   |                             |
|-------------------|-----------------------------|
| Application       | E                           |
| Primary Accession | <a href="#">O96AK3</a>      |
| Other Accession   | <a href="#">NP_689639.1</a> |
| Predicted         | Human                       |
| Host              | Goat                        |
| Clonality         | Polyclonal                  |
| Concentration     | 0.5                         |
| Calculated MW     | 46598                       |

**Goat Anti-APOBEC3D Antibody (internal region) - Additional Information****Gene ID** 140564**Other Names**

APOBEC3D; apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3D (putative); ARP6; apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3D

**Dilution**

E~~N/A

**Format**

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

**Immunogen**

Peptide with sequence C-ATDSQETRPGR, from the internal region of the protein sequence according to NP\_689639.1.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-APOBEC3D Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-APOBEC3D Antibody (internal region) - 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:<a href="http://www.uniprot.org/citations/16920826" target="\_blank">16920826</a>, PubMed:<a href="http://www.uniprot.org/citations/20062055" target="\_blank">20062055</a>, PubMed:<a href="http://www.uniprot.org/citations/21835787" target="\_blank">21835787</a>). 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:<a href="http://www.uniprot.org/citations/16920826" target="\_blank">16920826</a>). 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:<a href="http://www.uniprot.org/citations/27428332" target="\_blank">27428332</a>).

**Cellular Location**

Cytoplasm. Cytoplasm, P-body

**Tissue Location**

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

**Goat Anti-APOBEC3D Antibody (internal region) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-APOBEC3D Antibody (internal region) - Images****Goat Anti-APOBEC3D Antibody (internal region) - References**

APOBEC3B and APOBEC3F inhibit L1 retrotransposition by a DNA deamination-independent mechanism. Stenglein MD, Harris RS. J Biol Chem. 2006 Jun 23;281(25):16837-41. Epub 2006 Apr 28.