

# APOBEC1 Rabbit pAb

Catalog # AP99741

## Product Information

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>             | WB, IHC-P, IHC-F, IF, E                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Primary Accession</b>       | <a href="#">P41238</a>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Other Accession</b>         | <a href="#">P41238</a>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Predicted</b>               | Human, Horse                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Calculated MW</b>           | 28192                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human APOBEC1                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Epitope Specificity</b>     | 1-100/236                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>SIMILARITY</b>              | Belongs to the cytidine and deoxycytidylate deaminase family.                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>SUBUNIT</b>                 | Homodimer. Part of the apolipoprotein B mRNA editing complex with A1CF. Found in a complex with CELF2/CUGBP2 and A1CF. Interacts with HNRPA8 and SYNCRIP.                                                                                                                                                                                                                                                                                                  |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                  |
| <b>Background Descriptions</b> | Post-transcriptional editing of apolipoprotein B (apoB) mRNA is regulated by This gene encodes a member of the cytidine deaminase enzyme family. The encoded protein forms a multiple-protein editing holoenzyme with APOBEC1 complementation factor (ACF) and APOBEC1 stimulating protein (ASP). This holoenzyme is involved in the editing of C-to-U nucleotide bases in apolipoprotein B and neurofibromatosis-1 mRNAs. [provided by RefSeq, Jul 2008]. |

## Additional Information

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>     | 339                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Other Names</b> | APO1; APOBEC-1; BEDP; CDAR1; HEPR; ABEC1_HUMAN; APOBEC1; Apolipoprotein B mRNA-editing enzyme catalytic subunit 1 (APO1   APOBEC-1   Apolipoprotein B mRNA-editing enzyme 1); mRNA(cytosine(6666)) deaminase 1; 3.5.4.-; ABEC1_MOUSE; Apolipoprotein B mRNA-editing enzyme catalytic polypeptide 1 (APOBEC-1   Apolipoprotein B mRNA-editing enzyme 1); ABEC1_PONPY; apolipoprotein B mRNA editing enzyme catalytic subunit 1; apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1 |
| <b>Dilution</b>    | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,ELISA=1:5000-10000                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

## Protein Information

---

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | APOBEC1 ( <a href="#">HGNC:604</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Function</b>          | Cytidine deaminase catalyzing the cytidine to uridine postranscriptional editing of a variety of mRNAs (PubMed: <a href="#">30844405</a> ). Form complexes with cofactors that confer differential editing activity and selectivity. Responsible for the postranscriptional editing of a CAA codon for Gln to a UAA codon for stop in the apolipoprotein B mRNA (PubMed: <a href="#">24916387</a> ). Also involved in CGA (Arg) to UGA (Stop) editing in the NF1 mRNA (PubMed: <a href="#">11727199</a> ). May also play a role in the epigenetic regulation of gene expression by participating in DNA demethylation (By similarity). |
| <b>Cellular Location</b> | Cytoplasm. Nucleus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Tissue Location</b>   | Expressed exclusively in the small intestine.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.