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Apobec1 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1352a

Specification

Apobec1 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P41238
Other Accession	NP_001635
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**7-36**

Apobec1 Antibody (N-term) - Additional Information

Gene ID 339

Other Names
C->U-editing enzyme APOBEC-1, 354-, Apolipoprotein B mRNA-editing enzyme 1, HEPR, APOBEC1

Target/Specificity
This Apobec1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 7-36 amino acids from the N-terminal region of human Apobec1.

Dilution
WB~~1:1000
IHC-P~~1:50~100
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

Precautions
Apobec1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Apobec1 Antibody (N-term) - Protein Information

Name APOBEC1 (HGNC:604)

Function Cytidine deaminase catalyzing the cytidine to uridine postranscriptional editing of a

variety of mRNAs (PubMed:30844405). 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:24916387). Also involved in CGA (Arg) to UGA (Stop) editing in the NF1 mRNA (PubMed:11727199). May also play a role in the epigenetic regulation of gene expression by participating in DNA demethylation (By similarity).

Cellular Location
Cytoplasm. Nucleus

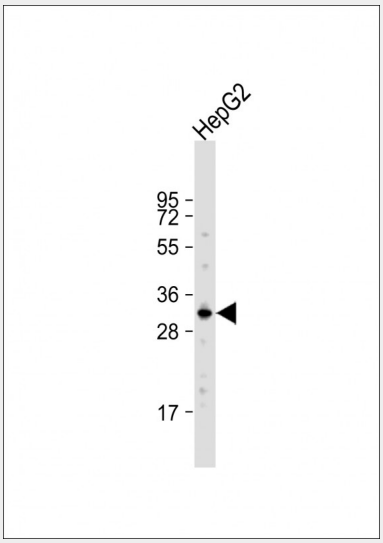
Tissue Location
Expressed exclusively in the small intestine.

Apobec1 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Apobec1 Antibody (N-term) - Images



Anti-Apobec1 Antibody (E22) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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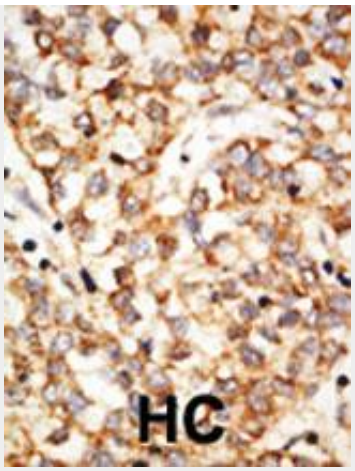
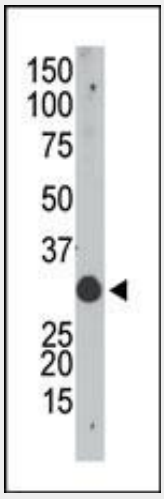


Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



The anti-Apobec1 N-term Pab (Cat. #AP1352a) is used in Western blot to detect Apobec in mouse small intestine tissue lysate.

Apobec1 Antibody (N-term) - Background

APOBEC1 is involved in the production of apolipoprotein B (apoB)-48 from apoB-100. The gene spans 18 kb and contains five exons, all of which are translated. Alternative splicing produces a variant transcript that lacks exon 2 and encodes a novel 36-amino acid peptide. The exon 2-skipped transcript accounts for approximately 50% of APOBEC1 mRNA in the adult small intestine and up to 90% of APOBEC1 mRNA in the developing gut. Exon 2-skipping may thus be a quantitatively important mechanism for regulating the expression of this gene in the gastrointestinal tract.

Apobec1 Antibody (N-term) - References

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Chester, A., et al., EMBO J. 22(15):3971-3982 (2003).
Wedekind, J.E., et al., Trends Genet. 19(4):207-216 (2003).
Mukhopadhyay, D., et al., Am. J. Hum. Genet. 70(1):38-50 (2002).
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