10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Apobec1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP1352a

Specification

Apobec1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession	P41238
Other Accession	NP_001635

Apobec1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 339

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1352a was selected from the N-term region of human Apobec1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Apobec1 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- Blocking Peptides

Apobec1 Antibody (N-term) Blocking Peptide - Images

Apobec1 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - References

Blanc, V., et al., J. Biol. Chem. 278(42):41198-41204 (2003).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).Dance, G.S., et al., J. Biol. Chem. 277(15):12703-12709 (2002).