

## Goat Anti-APOBEC1 Antibody

Peptide-affinity purified goat antibody Catalog # AF1077a

#### Specification

## **Goat Anti-APOBEC1 Antibody - Product Information**

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Concentration Isotype Calculated MW WB, E <u>P41238</u> <u>NP\_001635, 339, 11810 (mouse)</u> Mouse Human Goat Polyclonal 100ug/200ul IgG 28192

### Goat Anti-APOBEC1 Antibody - Additional Information

Gene ID 339

**Other Names** C->U-editing enzyme APOBEC-1, 3.5.4.-, Apolipoprotein B mRNA-editing enzyme 1, HEPR, APOBEC1

**Dilution** WB~~1:1000 E~~N/A

Format

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

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-APOBEC1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

#### **Goat Anti-APOBEC1 Antibody - Protein Information**

Name APOBEC1 (<u>HGNC:604</u>)

**Function** 

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



mRNAs (PubMed:<a href="http://www.uniprot.org/citations/30844405"

target="\_blank">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="http://www.uniprot.org/citations/24916387" target="\_blank">24916387</a>). Also involved in CGA (Arg) to UGA (Stop) editing in the NF1 mRNA (PubMed:<a

href="http://www.uniprot.org/citations/11727199" target="\_blank">11727199</a>). 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.

# Goat Anti-APOBEC1 Antibody - Protocols

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

- <u>Western Blot</u>
- <u>Blocking Peptides</u>
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

#### Goat Anti-APOBEC1 Antibody - Images

250kDa 150kDa	
100kDa	
75kDa	
50kDa	
37kDa	
-	
25kDa	
20kDa	
15kDa	
	250kDa 150kDa 100kDa 75kDa 50kDa 37kDa 25kDa 20kDa 15kDa

AF1077a (1  $\mu$ g/ml) staining of Mouse Spleen lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

# Goat Anti-APOBEC1 Antibody - Background

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.

#### Goat Anti-APOBEC1 Antibody - References



Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.

Hypermutation induced by APOBEC-1 overexpression can be eliminated. Chen Z, et al. RNA, 2010 May. PMID 20348446.

Large-scale candidate gene analysis of spontaneous clearance of hepatitis C virus. Mosbruger TL, et al. J Infect Dis, 2010 May 1. PMID 20331378.

Identification of two common variants contributing to serum apolipoprotein B levels in Mexicans. Weissglas-Volkov D, et al. Arterioscler Thromb Vasc Biol, 2010 Feb. PMID 19965785.

The expression of apoB mRNA editing factors is not the sole determinant for the induction of editing in differentiating Caco-2 cells. Galloway CA, et al. Biochem Biophys Res Commun, 2010 Jan 1. PMID 19932086.