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Anti-APOBEC3A Antibody

Rabbit polyclonal antibody to APOBEC3A
Catalog # AP59901

Product Information

Application	WB
Primary Accession	P31941
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23012

Additional Information

Gene ID	100913187;200315
Other Names	DNA dC->dU-editing enzyme APOBEC-3A; A3A; Phorbolin-1
Target/Specificity	Recognizes endogenous levels of APOBEC3A protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

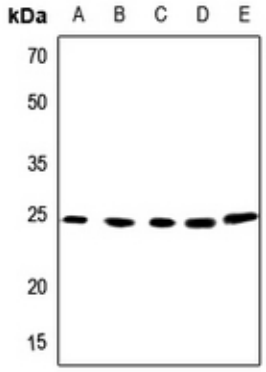
Name	APOBEC3A
Function	DNA deaminase (cytidine deaminase) with restriction activity against viruses, foreign DNA and mobility of retrotransposons. Exhibits antiviral activity against adeno-associated virus (AAV) and human T- cell leukemia virus type 1 (HTLV-1) and may inhibit the mobility of LTR and non-LTR retrotransposons. Selectively targets single-stranded DNA and can deaminate both methylcytosine and cytosine in foreign DNA. Can induce somatic hypermutation in the nuclear and mitochondrial DNA. May also play a role in the epigenetic regulation of gene expression through the process of active DNA demethylation.
Cellular Location	Nucleus. Cytoplasm.
Tissue Location	Expressed in peripheral leukocytes with higher expression in CD14-positive phagocytic cells. Highly expressed in keratinocytes and in periphery blood monocytes. Also detected in non- lymphoid tissues including lung and adipose tissues. Found at high levels in colorectal adenocarcinoma, Burkitt's

lymphoma and chronic myelogenous leukemia.

Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human APOBEC3A. The exact sequence is proprietary.

Images



Western blot analysis of APOBEC3A expression in Hela (A), HGC27 (B), mouse lung (C), mouse liver (D), rat liver (E) whole cell lysates.