Datasheet for ABIN2855306

anti-APOBEC3C antibody (Center)

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Overview

Quantity:	100 µL
Target:	APOBEC3C
Binding Specificity:	Center
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This APOBEC3C antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human APOBEC3C. The exact sequence is proprietary.
Isotype:	IgG
Characteristics:	Rabbit Polyclonal antibody to APOBEC3C (probable DNA dC->dU-editing enzyme APOBEC-3C) APOBEC3C antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	APOBEC3C
Alternative Name:	APOBEC3C (APOBEC3C Products)

Target Details

Background:	This gene is a member of the cytidine deaminase gene family. It is one of seven related genes or pseudogenes found in a cluster thought to result from gene duplication, on chromosome 22. Members of the cluster encode proteins that are structurally and functionally related to the C to U RNA-editing cytidine deaminase APOBEC1. It is thought that the proteins may be RNA editing enzymes and have roles in growth or cell cycle control.
Molecular Weight:	23 kDa
Gene ID:	27350

Application Details

Application Notes:	Suggested dilution Reference Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceWestern blot1:500-1:3000*
Comment:	Positive Control: NCI-H929
Restrictions:	For Research Use only

Handling

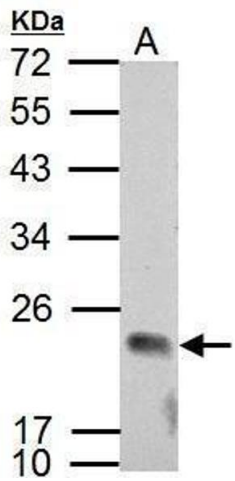
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS, 20 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

Product cited in:	Yang, Chien, Lai, Su, Jan, Hsiao, Chen: "Monoamine Oxidase B Expression Correlates with a Poor Prognosis in Colorectal Cancer Patients and Is Significantly Associated with Epithelial-to-Mesenchymal Transition-Related Gene Signatures." in: **International journal of molecular**

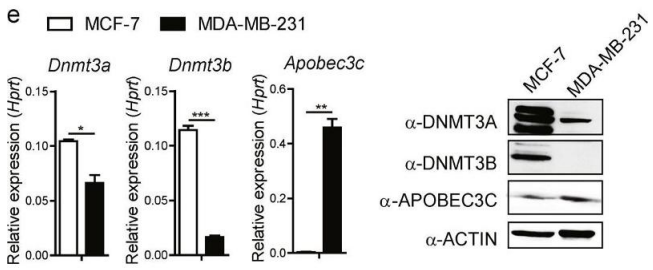
sciences, Vol. 21, Issue 8, (2020) (PubMed).

Images



Western Blotting

Image 1. WB Image Sample (30 ug of whole cell lysate) A: NCI-H929 12% SDS PAGE antibody diluted at 1:2000



Western Blotting

Image 2. Close association of epigenetic status with Ets1 level.a ChIP-seq analysis of H3K27Ac and H3K27me3 at Ets1 promoter locus in MCF-7 (blue line) and MDA-MB-231 (red line) cells. b ChIP analysis of active marker (H3Ac) and inactive markers (H3K9me3 and H3K27me3) at Ets1 promoter locus under unstimulated or P/I stimulation conditions. The data from each replicate were normalized to the input control and the graphs represent fold enrichment of the indicated proteins to control antibody at the designated locus. Data are presented as mean±SD. Two-way ANOVA with Bonferroni post-tests showed a significant difference of binding efficiency of H3Ac, H3K9me3, and H3K27me3 between MCF-7 and MDA-MB-231 cells. c DNA methylation status in the nine CpG sites (-375 or -534) was analyzed by bisulfite sequencing under unstimulated or stimulated (P/I) condition. Closed and open circles indicate methylated and unmethylated CpG sites, respectively. Bar graphs represent percentage methylation. Data are presented as mean±SD. Two-way ANOVA with Bonferroni post-tests showed a significant difference of DNA

methylation status. d Heatmap of RNA-sequencing data showing relative expression of DNA methylation-related and demethylation-related factors. e Analysis of relative expression levels in transcripts normalized against Hprt and proteins by qRT-PCR and Immuno-blots, respectively. Data are presented as mean±SD. One-way ANOVA with Bonferroni correction indicated a significant difference of expression. f Scatterplots and nonparametric Spearman's rank correlation (?) analysis with corresponding p-values correlation analysis from CCLE. Correlation between Ets1 and DNA methylation-related genes (Dnmt3a, Dnmt3b, and Apobec3c) in mRNA. Each symbol represents an individual human breast cancer cell line. Green circle: MCF-7 cells, Red circle: MDA-MB-231 cells. b, c, e Data shown are representative of more than two independent experiments with similar results. *p<0.05, **p<0.01, and ***p<0.001 (unpaired t-test) - figure provided by CiteAb. Source: PMID30467308

