Datasheet for ABIN2855866

anti-RICTOR antibody (C-Term)

3 Images | 1 Publication

Go to Product page

Overview

Quantity:	100 µL
Target:	RICTOR
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RICTOR antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human RICTOR. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Rabbit polyclonal antibody to RICTOR RICTOR antibody [C3], C-term
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	RICTOR

Target Details

Alternative Name:	RPTOR independent companion of MTOR complex 2 (RICTOR Products)
Background:	RICTOR and MTOR (FRAP1, MIM 601231) are components of a protein complex that integrates nutrient- and growth factor-derived signals to regulate cell growth (Sarbassov et al., 2004 [PubMed 15268862]).[supplied by OMIM]
Molecular Weight:	192 kDa
Gene ID:	253260
UniProt:	Q6R327
Pathways:	Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Actin Filament Polymerization, CXCR4-mediated Signaling Events

Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: A431 Validation: Orthogonal
Restrictions:	For Research Use only

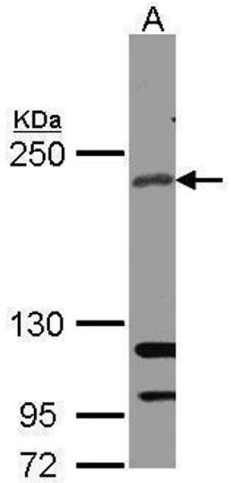
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
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:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

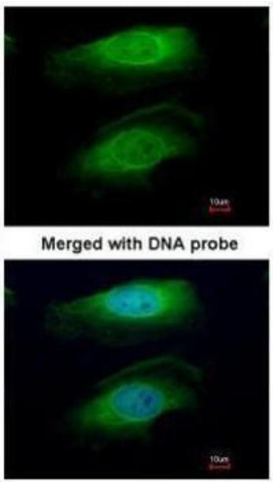
Product cited in: Salzman, Nakamura, Nallur, Dookwah, Metheetrairut, Slack, Weidhaas: "miR-34 activity is modulated through 5'-end phosphorylation in response to DNA damage." in: **Nature communications**, Vol. 7, pp. 10954, (2016) (PubMed).

Images



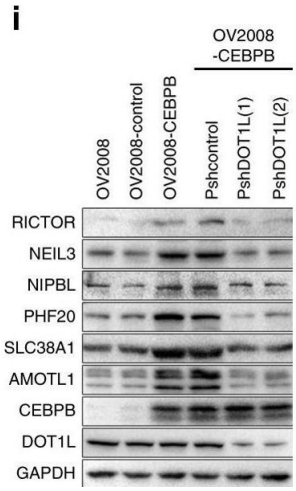
Western Blotting

Image 1. WB Image Sample(30 ug whole cell lysate) A: A431 , 5% SDS PAGE antibody diluted at 1:1000



Immunofluorescence

Image 2. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using RICTOR, antibody at 1:200 dilution.



Western Blotting

Image 3. C/EBPβ recruits the methyltransferase DOT1L to target genes that methylate H3K79. a Venn diagrams showing the overlap of C/EBPβ- and DOT1L-targeted genes (chi-squared test). b Correlation analysis of C/EBPβ binding sites and DOT1L binding sites. Red dots represent genes with two peak centers located less than 2500bp apart. c Representative results of C/EBPβ and DOT1L ChIP-qPCR. Primers were chosen according to the ChIP-seq results

(upper panel). d C/EBPβ interacts with DOT1L. Lysates from C13* cells were immunoprecipitated (IP) with a mouse anti-C/EBPβ antibody and analyzed by western blotting using a rabbit anti-DOT1L antibody (upper panel) or the reciprocal (lower panel). e ChIP-reChIP experiments with anti-C/EBPβ and anti-DOT1L antibodies. Mouse IgG (mIgG) and rabbit IgG (rIgG) were used as negative controls. f Meta-analysis of the averaged DOT1L ChIP-seq signal of genes across a ±10kb genomic region flanking the TSS. g Normalized C/EBPβ and DOT1L ChIP-seq signal of the representative C/EBPβ-DOT1L co-targeted genes (EREG and SLC38A1). h Analysis of DOT1L ChIP-qPCR (green), H3K79me2/me3 ChIP-qPCR (blue), and RT-qPCR (purple) in C13* cells. Gene names in red indicate documented cisplatin-resistance genes in ovarian cancer. i The protein levels of C/EBPβ-DOT1L co-targeted genes in the indicated OV2008 cells were detected by western blotting. Uncropped images of blots are shown in Supplementary Figure 25. *P<0.05, ***P<0.001 - figure provided by CiteAb. Source: PMID29712898