

For Research Use Only

# CCAR2 Monoclonal antibody

Catalog Number: 66497-1-Ig **Featured Product**



## Basic Information

<b>Catalog Number:</b> 66497-1-Ig	<b>GenBank Accession Number:</b> BC018269	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 57805	<b>CloneNo.:</b> 2D10F8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8N163	<b>Recommended Dilutions:</b> WB 1:2000-1:16000 IHC 1:250-1:1000 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG2a	<b>Full Name:</b> KIAA1967	
<b>Immunogen Catalog Number:</b> AG18374	<b>Calculated MW:</b> 923 aa, 103 kDa	
	<b>Observed MW:</b> 130 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, pig	<b>WB :</b> HeLa cells, pig brain tissue, HEK-293 cells, MCF-7 cells, Jurkat cells
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> human cervical cancer tissue, human colon tissue, human lung cancer tissue, human colon cancer tissue
	<b>IF/ICC :</b> HeLa cells,

## Background Information

Cell cycle and apoptosis regulator protein 2 (CCAR2), previously known as DBC1/KIAA1967, regulates diverse cellular functions including transcription, mRNA splicing, metabolism, and circadian cycle. CCAR2 is a critical regulator of cell death or survival following cellular stresses. CCAR2 is a widely expressed protein involved in the regulation of a variety of transcriptional complexes. High expression of CCAR2 correlates with poor outcomes in many human tumor types such as squamous cell carcinoma (SCC).

## Storage

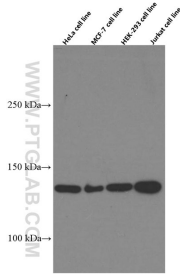
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

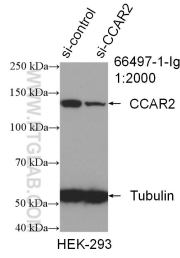
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

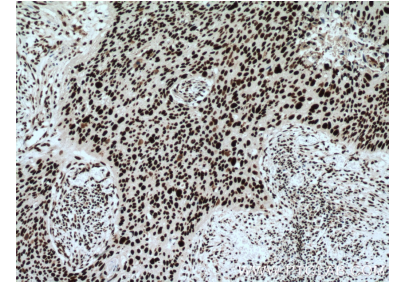
## Selected Validation Data



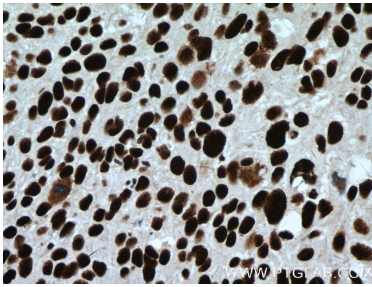
Various lysates were subjected to SDS PAGE followed by western blot with 66497-1-Ig (CCAR2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



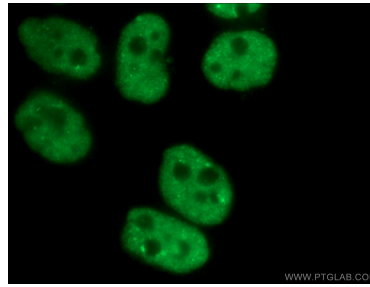
WB result of CCAR2 antibody (66497-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CCAR2 transfected HEK-293 cells.



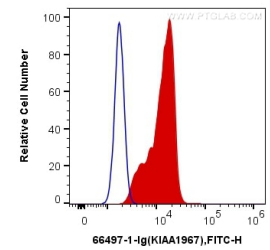
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 66497-1-Ig (CCAR2 antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



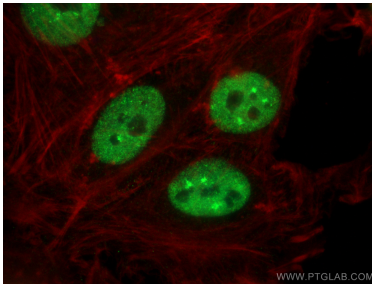
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 66497-1-Ig (CCAR2 antibody) at dilution of 1:500 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 66497-1-Ig (CCAR2 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



$1 \times 10^6$  U2OS cells were intracellularly stained with 0.2 ug Anti-Human CCAR2 (66497-1-Ig, Clone:2D10F8) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Mouse IgG2a Isotype Control (66360-2-Ig, Clone: K11A1B2A2) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CCAR2 antibody (66497-1-Ig, Clone: 2D10F8) at dilution of 1:800 and Multi-rAb CoraLite @ Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002), CL594-Phalloidin (red).