

# CCAR2 Monoclonal antibody

Catalog Number: 66497-1-Ig

Featured Product

## Basic Information

Catalog Number:

66497-1-Ig

Size:

1500 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG18374

GenBank Accession Number:

BC018269

GeneID (NCBI):

57805

UNIPROT ID:

Q8N163

Full Name:

KIAA1967

Calculated MW:

923 aa, 103 kDa

Observed MW:

130 kDa

Purification Method:

Protein A purification

CloneNo.:

2D10F8

Recommended Dilutions:

WB 1:2000-1:16000

IHC 1:250-1:1000

IF 1:50-1:500

## Applications

Tested Applications:

FC, IF/ICC, IHC, WB, ELISA

Species Specificity:

Human, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

**WB** : HeLa cells, pig brain tissue, HEK-293 cells, MCF-7 cells, Jurkat cells

**IHC** : human cervical cancer tissue, human colon tissue, human lung cancer tissue, human colon cancer tissue

**IF** : 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:

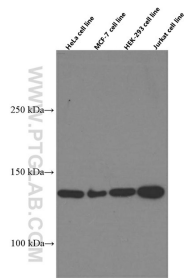
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

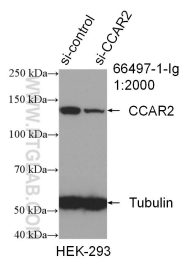
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

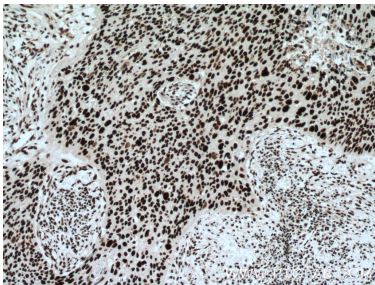
Selected Validation Data



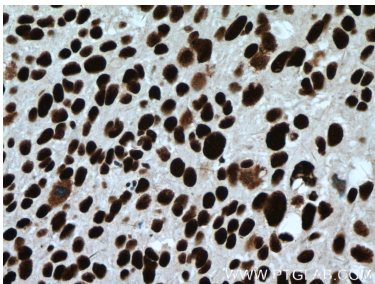
Various lysates were subjected to SDS PAGE followed by western blot with 66497-1-Ig (CCAR2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



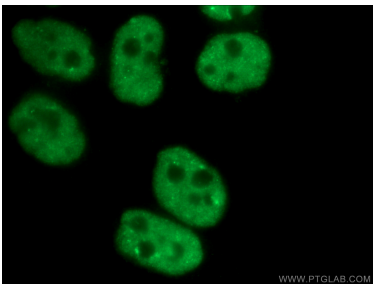
WB result of CCAR2 antibody (66497-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CCAR2 transfected HEK-293 cells.



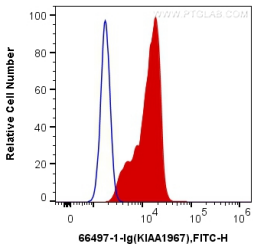
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 66497-1-Ig (CCAR2 antibody) at dilution of 1:500 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



1X10<sup>6</sup> 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).