For Research Use Only

CARM1 Recombinant antibody

Catalog Number:85146-3-RR

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Basic Information

Catalog Number:
85146-3-RR

Size:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_199141

GeneID (NCBI):
10498

UNIPROT ID:
Q86X55

Full Name:
coactivator-associated arginine methyltransferase 1

Calculated MW:
66 kDa

Observed MW:
63-65 kDa

Purification Method:
Protein A purification

CloneNo.:
242651F10

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : HeLa cells, HEK-293T cells, HCT 116 cells, MCF-7 cells, NCI-H1299 cells, NIH/3T3 cells, PC-12 cells

Background Information

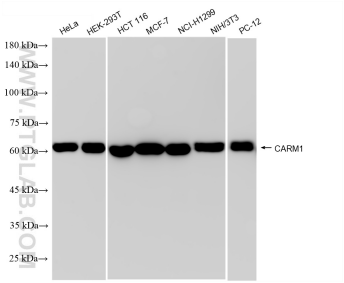
CARM1, also named as PRMT4, belongs to the protein arginine N-methyltransferase family. It is a dual functional coregulator that facilitates transcription initiation by methylation of Arg17 and Arg26 of histone H3 and also dictates the subsequent coactivator complex disassembly by methylation of the steroid receptor coactivator family coactivators and p300/cAMP-response element-binding protein. CARM1 functions as a coactivator for many nuclear receptors, such as oestrogen receptor, androgen receptor, thyroid receptor and farnesoid X-receptor. It also coactivates other transcription factors such as myocyte enhancer factor 2C (MEF2C), β-catenin, p53, nuclear factor (NF)-kB and the cAMP-responsive element-binding factor. The enzymatic activity and coactivator function of CARM1 has been found to be inactivated through phosphorylation at a conserved serine residue at mitosis stage. This antibody was generated against a synthetic peptide corresponding to a fragment of human CARM1. It is expected to specifically recognize the CRAM1. In certain type of cells, like Hela, double bands can be detected with this antibody. This may due to the additional PTM sites in cells themselves.

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

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85146-3-RR (CARM1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.