

Datasheet for ABIN7155449  
**anti-CARM1 antibody (AA 209-379)**[Go to Product page](#)

## 3 Images

## Overview

|                      |   |
|----------------------|---|
| Quantity:            | 100 µg  |
| Target:              | CARM1   |
| Binding Specificity: | AA 209-379  |
| Reactivity:          | Human   |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Conjugate:           | This CARM1 antibody is un-conjugated  |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF) |

## Product Details

|                   |  |
|-------------------|--|
| Immunogen:        | Recombinant Human Histone-arginine methyltransferase CARM1 protein (209-379AA) |
| Isotype:          | IgG  |
| Cross-Reactivity: | Human, Mouse   |
| Purification:     | >95%, Protein G purified   |

## Target Details

|                   |   |
|-------------------|---|
| Target:           | CARM1   |
| Alternative Name: | CARM1 ( <a href="#">CARM1 Products</a> )  |
| Background:       | Background: Methylates (mono- and asymmetric dimethylation) the guanidino nitrogens of arginyl residues in several proteins involved in DNA packaging, transcription regulation, pre- |

## Target Details

mRNA splicing, and mRNA stability. Recruited to promoters upon gene activation together with histone acetyltransferases from EP300/P300 and p160 families, methylates histone H3 at 'Arg-17' (H3R17me), forming mainly asymmetric dimethylarginine (H3R17me<sub>2</sub>), leading to activate transcription via chromatin remodeling. During nuclear hormone receptor activation and TCF7L2/TCF4 activation, acts synergically with EP300/P300 and either one of the p160 histone acetyltransferases NCOA1/SRC1, NCOA2/GRIP1 and NCOA3/ACTR or CTNNB1/beta-catenin to activate transcription. During myogenic transcriptional activation, acts together with NCOA3/ACTR as a coactivator for MEF2C. During monocyte inflammatory stimulation, acts together with EP300/P300 as a coactivator for NF-kappa-B. Acts as coactivator for PPARG, promotes adipocyte differentiation and the accumulation of brown fat tissue. Plays a role in the regulation of pre-mRNA alternative splicing by methylation of splicing factors. Also seems to be involved in p53/TP53 transcriptional activation. Methylates EP300/P300, both at 'Arg-2142', which may loosen its interaction with NCOA2/GRIP1, and at 'Arg-580' and 'Arg-604' in the KIX domain, which impairs its interaction with CREB and inhibits CREB-dependent transcriptional activation. Also methylates arginine residues in RNA-binding proteins PABPC1, ELAVL1 and ELAV4, which may affect their mRNA-stabilizing properties and the half-life of their target mRNAs.

Aliases: carm1 antibody, CARM1\_HUMAN antibody, Coactivator associated arginine methyltransferase 1 antibody, Coactivator-associated arginine methyltransferase 1 antibody, Histone arginine methyltransferase CARM 1 antibody, Histone arginine methyltransferase CARM1 antibody, Histone-arginine methyltransferase CARM1 antibody, PRMT 4 antibody, PRMT4 antibody, Protein arginine methyltransferase antibody, Protein arginine N-methyltransferase 4 antibody, Protein arginine N-methyltransferase 4 antibody

UniProt: [Q86X55](#)

Pathways: [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#), [Regulation of Lipid Metabolism by PPARalpha](#), [Regulation of Muscle Cell Differentiation](#), [Skeletal Muscle Fiber Development](#), [Positive Regulation of fat Cell Differentiation](#)

## Application Details

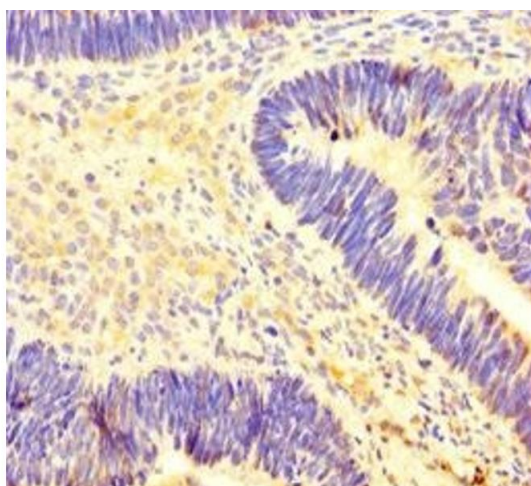
Application Notes: Recommended dilution: WB:1:2000-1:5000, IHC:1:20-1:200, IF:1:50-1:200,

Restrictions: For Research Use only

## Handling

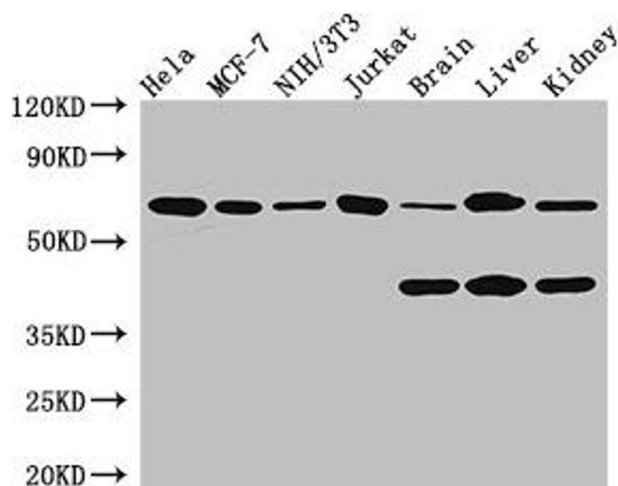
|                    |   |
|--------------------|---|
| Format:            | Liquid  |
| Buffer:            | Preservative: 0.03 % Proclin 300<br>Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4                                |
| Preservative:      | ProClin   |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C,-80 °C   |
| Storage Comment:   | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.   |

## Images



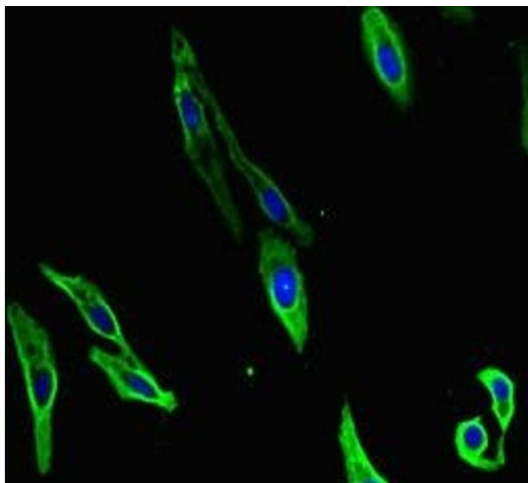
### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human ovarian cancer using ABIN7155449 at dilution of 1:100



### Western Blotting

**Image 2.** Western Blot Positive WB detected in: HeLa whole cell lysate, MCF-7 whole cell lysate, NIH/3T3 whole cell lysate, Jurkat whole cell lysate, Mouse brain tissue, Mouse liver tissue, Mouse kidney tissue All lanes: CARM1 antibody at 3.4 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 66, 64, 42 kDa Observed band size: 66, 42 kDa



#### Immunofluorescence

**Image 3.** Immunofluorescent analysis of HeLa cells using ABIN7155449 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)