

## Rabbit CARM1 Polyclonal Antibody | anti-CARM1 antibody

Anti-CARM1 Antibody, Rabbit Polyclonal

| CATALOG # | HOST   | REACTIVITY                                                                                             | APPLICATIONS                                                  |
|-----------|--------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| AAA254333 | Rabbit | Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology) | Immunofluorescence, Immunocytochemistry, Immunohistochemistry |

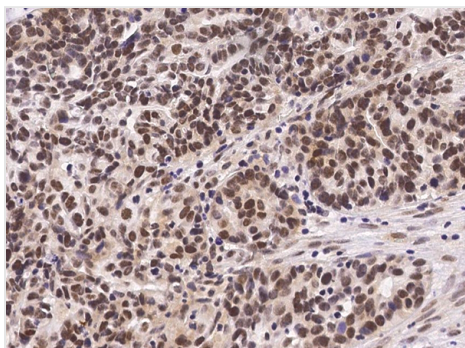
### PRODUCT SYNONYMS

CARM1; Polyclonal Antibody; Anti-CARM1 Antibody; Rabbit Polyclonal; CARM1 Antibody; Rabbit PAb; Antigen Affinity Purified; coactivator associated arginine methyltransferase 1; Anti-PRMT4 Antibody; anti-CARM1 antibody

### PRODUCT SPECIFICATIONS

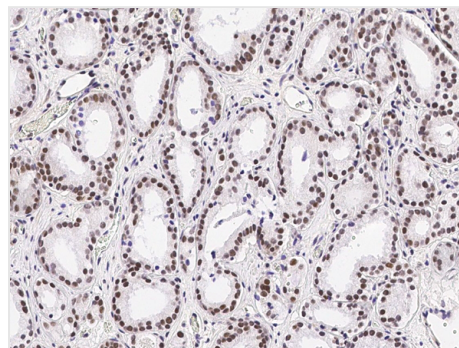
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|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                      | Human<br>Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)                                                                                                                                                             |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                            |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                            |
| Specificity                                     | Human CARM1                                                                                                                                                                                                                                                           |
| Purity/Purification                             | Protein A & Antigen Affinity                                                                                                                                                                                                                                          |
| Form/Format                                     | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Applicable Applications for anti-CARM1 antibody | IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)                                                                                                                                                                                        |
| Immunogen                                       | A synthetic peptide corresponding to the N-terminus of the Human CARM1                                                                                                                                                                                                |
| Conjugation                                     | Unconjugated                                                                                                                                                                                                                                                          |
| Preparation                                     | Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Human CARM1, and purified by antigen affinity chromatography.                                                                                                           |
| Preparation and Storage                         | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |

### IMAGES



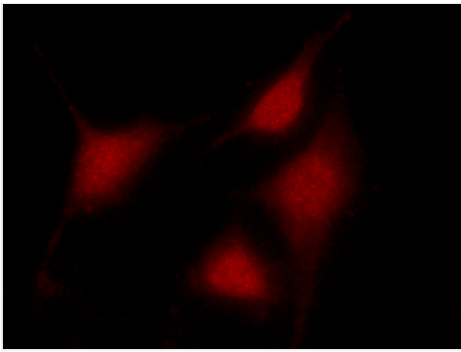
IHC (Immunohistochemistry)

Immunohistochemical staining of human CARM1 in human ovarian cancer with rabbit polyclonal antibody (1:2000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)

Immunohistochemical staining of human CARM1 in human prostatic carcinoma with rabbit polyclonal antibody (1:2000, formalin-fixed paraffin embedded sections).



**IF (Immunofluorescence)**  
Immunofluorescence staining of CARM1 in Hela cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human CARM1 polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor594-conjugated Goat Anti-rabbit IgG secondary antibody (red). Positive staining was localized to cytoplasm and nucleus.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CARM1 antibody | CARM1 is a protein arginine methyltransferase (PRMT) that has been firmly implicated in transcriptional regulation. Chromatin-modifying enzymes, and specifically the protein arginine methyltransferases (PRMTs), have emerged as important targets in cancer. Using conditional knockout mice, loss of CARM1 has little effect on normal hematopoiesis. Strikingly, knockout of Carm1 abrogates both the initiation and maintenance of acute myeloid leukemia (AML) driven by oncogenic transcription factors. CARM1 knockdown impairs cell-cycle progression, promotes myeloid differentiation, and ultimately induces apoptosis. utilize a selective, small-molecule inhibitor of CARM1 to validate the efficacy of CARM1 inhibition in leukemia cells in vitro and in vivo. Thus targeting CARM1 may be an effective therapeutic strategy for AML. Protein arginine methyltransferase (PRMT) 4 (also known as coactivator-associated arginine methyltransferase 1; CARM1) is involved in a variety of biological processes and is considered a candidate oncogene owing to its overexpression in several types of cancer. Selective PRMT4 inhibitors are useful tools for clarifying the molecular events regulated by PRMT4 and for validating PRMT4 as a therapeutic target. CARM1 is an arginine methyltransferase with diverse histone and non-histone substrates implicated in the regulation of cellular processes including transcriptional co-activation and RNA processing. CARM1 overexpression has been reported in multiple cancer types and has been shown to modulate oncogenic pathways in vitro studies. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------|
| NCBI GI #                        | 308153622                                                                        |
| NCBI GeneID                      | 10498                                                                            |
| UniProt Accession #              | Q86X55; A6NN38                                                                   |
| Molecular Weight                 | 608                                                                              |
| NCBI Official Full Name          | Histone-arginine methyltransferase CARM1                                         |
| NCBI Official Synonym Full Names | coactivator-associated arginine methyltransferase 1                              |
| NCBI Official Symbol             | CARM1                                                                            |
| NCBI Official Synonym Symbols    | PRMT4                                                                            |
| NCBI Protein Information         | histone-arginine methyltransferase CARM1; protein arginine N-methyltransferase 4 |
| UniProt Protein Name             | Histone-arginine methyltransferase CARM1                                         |
| UniProt Gene Name                | CARM1                                                                            |
| UniProt Synonym Gene Names       | PRMT4                                                                            |
| UniProt Entry Name               | CARM1_HUMAN                                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/carm1-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/254333>