



## CARM1 Mouse Monoclonal Antibody

E10-30153

**Background:** Protein arginine N-methyltransferases, such as CARM1, catalyze the transfer of a methyl group from S-adenosyl-L-methionine to the side chain nitrogens of arginine residues within proteins to form methylated arginine derivatives and S-adenosyl-L-homocysteine. Protein arginine methylation has been implicated in signal transduction, metabolism of nascent pre-RNA, and transcriptional activation (Frankel et al. 2002 (PubMed 11724789). Tissue specificity: Overexpressed in prostate adenocarcinomas and high-grade prostatic intraepithelial neoplasia.

**Catalog Number:** E10-30153

**Amount:** 100µg/100µl

**Clone Number:** 3H2

**Species:** Mouse IgG1

**MW:** 65kDa

**Aliases:** PRMT4; CARM1

**Entrez Gene:** 10498

**Immunogen:** Purified recombinant fragment of human CARM1 expressed in E. Coli.

**Storage:** Store at 4°C, for long term storage, store at -20°C.

**Formulation:** Ascitic fluid containing 0.03% sodium azide.

**Species Reactivities:** Human; Monkey; Rat

**Tested Applications:** WB, IHC, IF, FC, ELISA. Not yet tested in other applications.

**Application notes:** WB: 1/500 - 1/2000, IHC: 1/200-1/1000, IF: 1/200-1/1000, FC: 1/200-1/400, ELISA: Propose dilution 1/10000.

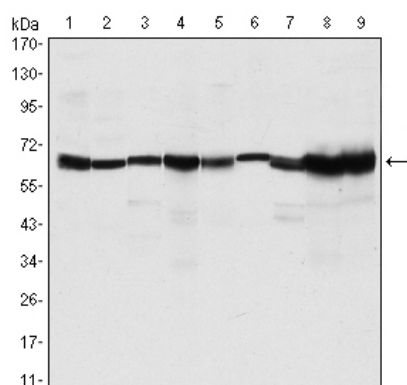


Figure 1: Western blot analysis using CARM1 mouse mAb against MCF-7 (1), Hela (2), NIH/3T3 (3), HL-60 (4), LNCap (5), Jurkat (6), PC-3 (7), Cos7 (8), and PC-12 (9) cell lysate.

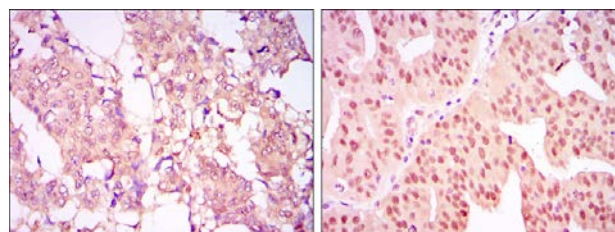


Figure 2: Immunohistochemical analysis of paraffin-embedded breast cancer tissues (left) and ovarian cancer tissues (right) using CARM1 mouse mAb with DAB staining.

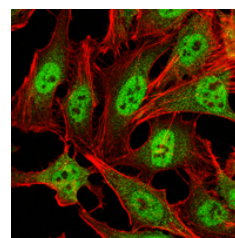


Figure 3: Immunofluorescence analysis of Hela cells using CARM1 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

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