

CARM1(Phospho-Ser228) antibody

Catalog No: #11331

Package Size: #11331-1 50ul #11331-2 100ul

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Description

Product Name	CARM1(Phospho-Ser228) antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of CARM1 only when phosphorylated at serine228.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 228(V-K-S(p)-N-N) derived from Human CARM1.
Target Name	CARM1
Modification	Phospho
Other Names	PRMT4
Accession No.	Swiss-Prot: A6NN38; NCBI Gene ID: 10498; NCBI mRNA: NM_199141.1 ; NCBI Protein: NP_954592.1
Uniprot	Q86X55
GeneID	10498;
SDS-PAGE MW	63KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

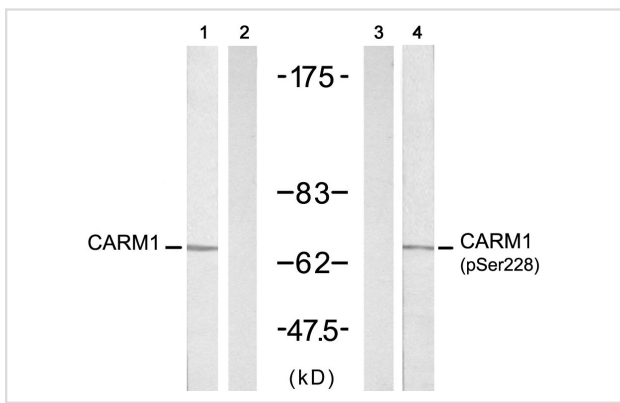
Application Details

Predicted MW: 63kd

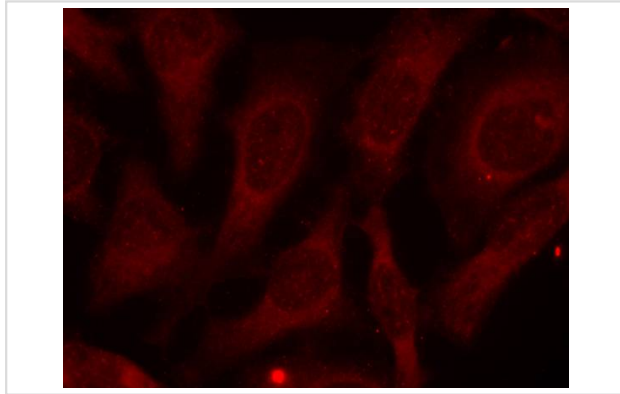
Western blotting : 1:500~1:1000

Immunofluorescence: 1:100~1:200

Images



Western blot analysis of extracts from A431 cells untreated or treated with EGF (200ng/ml, 5min), using CARM1 (Ab-228) antibody (#21331, Line 1 and 2) and CARM1 (Phospho-Ser228) antibody (#11331, Line 3 and 4).



Immunofluorescence staining of methanol-fixed HeLa cells using CARM1 (Phospho-Ser228) antibody (#11331, Red).

Background

Methylates (mono- and asymmetric dimethylation) the guanidino nitrogens of arginyl residues in several proteins involved in DNA packaging, transcription regulation, pre-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 (H3R17me2a), 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 PPAR γ , 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

Note: This product is for in vitro research use only