

## CARM1 Antibody HRP Conjugated

Catalog No: #C05145H

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	CARM1 Antibody HRP Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	IHC-P IHC-F
Species Reactivity	Hu Ms Rt
Immunogen Description	KLH conjugated synthetic peptide aa 430-480 608 derived from human CARM1
Conjugates	HRP
Target Name	CARM1
Other Names	PRMT4; Histone-arginine methyltransferase CARM1; Coactivator-associated arginine methyltransferase 1; Protein arginine N-methyltransferase 4; CARM1
Accession No.	Swiss-Prot#Q86X55NCBI Gene ID10498
Uniprot	Q86X55
GeneID	10498;
Excitation Emission	N A
Cell Localization	Cytoplasm, Nucleus
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

## Application Details

IHC-P=1:50-200 IHC-F=1:50-200

## 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 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.

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Note: This product is for in vitro research use only