

Symmetric Di-Methyl Arginine Motif [sdme-RG] MultiMab[®] Rabbit mAb mix



Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: All	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG
Product Usage Information		Application Western Blotting	Dilution 1:1000
Storage			n HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than at –20°C. Do not aliquot the antibody.
Specificity/Sensitivity		Symmetric Di-Methyl Arginine Motif [sdme-RG] MultiMab [®] Rabbit mAb mix recognizes endogenous levels of proteins that are symmetrically dimethylated on arginine residues. This antibody does not cross-react with monomethylated, asymmetrically methylated arginine, or methylated lysine residues.	
Source / Purification		MultiMab [®] rabbit monoclonal mix antibodies are prepared by combining individual rabbit monoclonal clones in optimized ratios for the approved applications. Each antibody in the mix is carefully selected based on motif recognition and performance in multiple assays. Each mix is engineered to yield the broadest possible coverage of the modification being studied while ensuring a high degree of specificity for the modification or motif.	
Background		methylated proteins are in regulation, signal transduc carried out by the arginine a methyl group from S-ade three different types of arg dimethylarginine), where t guanidine group of arginin where one methyl group is monomethylarginine (MM of the terminal nitrogen at functional consequences. (PRMT1, 3, 4, 6, and 8) add and 7) produce sDMA. Met domains, such as RGG, RG	prevalent PTM found on both nuclear and cytoplasmic proteins. Arginine wolved in many different cellular processes, including transcriptional ction, RNA metabolism, and DNA damage repair (1-3). Arginine methylation is e N-methyltransferase (PRMT) family of enzymes that catalyze the transfer of enosylmethionine (AdoMet) to a guanidine nitrogen of arginine (4). There are ginine methylation: asymmetric dimethylarginine (aDMA, omega-NG,NG- wo methyl groups are placed on one of the terminal nitrogen atoms of the ne; symmetric dimethylarginine (sDMA, omega-NG,NG-dimethylarginine), s placed on each of the two terminal guanidine nitrogens of arginine; and A, omega-NG-methylarginine), where a single methyl group is placed on one coms of arginine. Each of these modifications has potentially different Though all PRMT proteins catalyze the formation of MMA, Type I PRMTs an additional methyl group to produce aDMA, while Type II PRMTs (PRMT5 chylated arginine residues often reside in glycine-arginine rich (GAR) protein , and RXR repeats (5). However, PRMT4/CARM1 and PRMT5 methylate roline-glycine-methionine rich (PGM) motifs (6).
		neural precursors, but bot detected in post-mitotic ne This implies that sDMA mo	ed (sDMA) histone H4R3 is prevalent in undifferentiated mouse embryonic h symmetric and asymmetric dimethyl (aDMA) H4R3 modifications are eurons and developing oligodendrocytes during later stages of development. odifications may be negative epigenetic regulatory events while aDMA epigenetic activation sites (7).
Background Refe	erences	2. Pahlich, S. et al. (2006) <i>E</i> 3. Bedford, M.T. and Clarke 4. McBride, A.E. and Silver,	(1998) Prog Nucleic Acid Res Mol Biol 61, 65-131. Iol Cell 25, 71-83.
Species Reactivit	у	Species reactivity is detern	nined by testing in at least one approved application (e.g., western blot).
Western Blot Buf	fer		olots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X °C with gentle shaking, overnight.
Applications Key		W: Western Blotting	

Cross-Reactivity Key	All: All Species Expected		
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