

Mono-Methyl Arginine [mme-R] MultiMab[®] Rabbit mAb mix



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

| Applications: | Reactivity: | Sensitivity: | Source/Isotype: | |
|------------------------------|-------------|---|---|--|
| VV, IP, E-P | All | Endogenous | Rabbit Igg | |
| Product Usage Information | | Application Western Blotting | | Dilution 1:1000 |
| | | Immunoprecipitation | | 1:50 |
| | | Peptide ELISA (DELFIA) | | 1:1000 |
| Storage | | Supplied in 10 mM sodium 0.02% sodium azide. Store | HEPES (pH 7.5), 150 mM Na at –20°C. Do not aliquot the | aCl, 100 μg/ml BSA, 50% glycerol and less than e antibody. |
| Specificity/Sensitivity | | Mono-Methyl Arginine [mme-R] MultiMab [®] Rabbit mAb mix recognizes endogenous levels of mono- methyl arginine protein. This is a general mono-methyl arginine motif antibody without sequence preferences. It does not cross-react with di-methyl arginine or unmethylated arginine. | | |
| 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 | | Arginine methylation is a p methylated proteins are inv regulation, signal transduct carried out by the arginine a methyl group from S-ade three different types of arg dimethylarginine), where tu guanidine group of arginin where one methyl group is monomethylarginine (MMA of the terminal nitrogen ato functional consequences. T (PRMT1, 3, 4, 6, and 8) add and 7) produce sDMA. Meth domains, such as RGG, RG, arginine residues within pro- | revalent PTM found on both olved in many different cel ion, RNA metabolism, and N-methyltransferase (PRMT) nosylmethionine (AdoMet) nine methylation: asymme vo methyl groups are place c; symmetric dimethylargin placed on each of the two distributions of arginine. Each of the hough all PRMT proteins ca an additional methyl group hylated arginine residues of and RXR repeats (5). Howe oline-glycine-methionine rid | n nuclear and cytoplasmic proteins. Arginine lular processes, including transcriptional DNA damage repair (1-3). Arginine methylation is f) family of enzymes that catalyze the transfer of to a guanidine nitrogen of arginine (4). There are tric dimethylarginine (aDMA, omega-NG,NG- d on one of the terminal nitrogen atoms of the time (sDMA, omega-NG,NG-dimethylarginine), terminal guanidine nitrogens of arginine; and e), where a single methyl group is placed on one ese modifications has potentially different atalyze the formation of MMA, Type I PRMTs to produce aDMA, while Type II PRMTs (PRMT5 ften reside in glycine-arginine rich (GAR) protein yer, PRMT4/CARM1 and PRMT5 methylate ch (PGM) motifs (6). t |
| Background Ref | erences | 1. Bedford, M.T. and Richard 2. Pahlich, S. et al. (2006) <i>Bi</i> 3. Bedford, M.T. and Clarke 4. McBride, A.E. and Silver, I 5. Gary, J.D. and Clarke, S. (6. Cheng, D. et al. (2007) <i>Mi</i> 7. Dhar, S. et al. (2013) <i>Sci R</i> | d, S. (2005) <i>Mol Cell</i> 18, 263 ochim Biophys Acta 1764, 1 S.G. (2009) <i>Mol Cell</i> 33, 1-1 P.A. (2001) <i>Cell</i> 106, 5-8. 998) <i>Prog Nucleic Acid Res</i> ol Cell 25, 71-83. ep 3, 1311. | -72. 890-903. 3. : <i>Mol Biol</i> 61, 65-131. |
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| Species Reactivi | ty | Species reactivity is determ | ined by testing in at least o | ne approved application (e.g., western blot). |
| Western Blot Bu | ffer | IMPORTANT: For western b TBS, 0.1% Tween® 20 at 4% | ots, incubate membrane w I with gentle shaking, over | vith diluted primary antibody in 5% w/v BSA, 1X night. |
| Applications Key | / | W: Western Blotting IP: Im | nunoprecipitation E-P: Pep | tide ELISA (DELFIA) |
| Cross-Reactivity | Кеу | All: All Species Expected | | |

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