## MTA1 (D17G10) Rabbit mAb



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<b>Applications:</b> W, IP, ChIP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 78-82	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q13330	Entrez-Gene Id: 9112
Product Usage Information		For optimal ChIP results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10 <sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP <sup>®</sup> Enzymatic Chromatin IP Kits.				
		Application			Dilution	
		Western Blotting			1:1000	
		Immunoprecipitation			1:200	
		Chromatin IP			1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		MTA1 (D17G10) Rabbit mAb detects endogenous levels of total MTA1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val632 of human MTA1 protein.				
Background		MTA1 (metastasis associated gene 1) was identified in a differential screening of a cDNA library of metastatic and nonmetastatic adenocarcinoma cell lines (1), and was subsequently found to be an integral member of the nucleosome remodeling and deacetylation (NuRD) complex (2,3). MTA1 expression is upregulated under hypoxic conditions and found to enhance angiogenesis through stabilization of HIF-1α (4,5). MTA1 is overexpressed in a wide range of human cancers, and its expression is associated with malignancy and tumor progression (6). MTA1 is an essential downstream effector of c-Myc transformation (7). Recently, MTA1 was demonstrated to play a role in DNA damage response (8,9).				
Background References		<ol> <li>Toh, Y. et al. (1994) J Biol Chem 269, 22958-63.</li> <li>Xue, Y. et al. (1998) Mol Cell 2, 851-61.</li> <li>Zhang, Y. et al. (1998) Cell 95, 279-89.</li> <li>Yoo, Y.G. et al. (2006) EMBO J 25, 1231-41.</li> <li>Moon, H.E. et al. (2006) Oncol Rep 16, 929-35.</li> <li>Toh, Y. and Nicolson, G.L. (2009) Clin Exp Metastasis 26, 215-27.</li> <li>Zhang, X.Y. et al. (2005) Proc Natl Acad Sci U S A 102, 13968-73.</li> <li>Li, D.Q. et al. (2009) J Biol Chem 284, 34545-52.</li> <li>Li, D.Q. et al. (2010) J Biol Chem 285, 10044-52.</li> </ol>				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

**Western Blot Buffer** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat

dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

W: Western Blotting IP: Immunoprecipitation ChIP: Chromatin IP

**Cross-Reactivity Key** 

H: Human M: Mouse R: Rat Mk: Monkey

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