#93065

MTSS1 (D2H4L) XP[®] Rabbit mAb



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Applications: W, IP, IHC-P, IF-IC	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 95-105	Source/Isotype: Rabbit IgG	UniProt ID: #O43312	Entrez-Gene Id: 9788		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemist Immunofluorescence		istry)		Dilution 1:1000 1:200 1:200 1:1600		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sensitivity		MTSS1 (D2H4L) $XP^{ extsf{B}}$ Rabbit mAb recognizes endogenous levels of total MTSS1 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val650 of human MTSS1 protein.						
Background		Metastasis suppressor 1 (MTSS1) is a multi-functional scaffold protein that was initially discovered using a differential display technique that identified proteins missing from bladder cancer cell lines (1,2). MTSS1 (also known as Missing in Metastasis or MIM) is a cytoskeletal remodeling protein that contains a C-terminal WH2 actin-binding motif (1,3). Presence of an IMD (IRSp53/MIM homology) domain allows MTSS1 to induce F-actin bundling and filopodia formation in cells (4). MTSS1 binds to and activates Rac, a protein known to promote the formation of filopodia and lamellipodia (5). The receptor tyrosine phosphatase δ (PTPRD) is associated with MTSS1 and is required for MTSS1- dependent cytoskeletal change (6,7). MTSS1 is a SHH responsive gene that can help regulate GLI- dependent transcriptional activity (8).						
Background Re	eferences	 Lee, Y.G. et al. <i>Neoplasia</i> 4, 291-4. Machesky, L.M. and Johnston, S.A. (2007) <i>J Mol Med</i> 85, 569-76. Mattila, P.K. et al. (2003) <i>J Biol Chem</i> 278, 8452-9. Yamagishi, A. et al. (2004) <i>J Biol Chem</i> 279, 14929-36. Bompard, G. et al. (2005) <i>J Cell Sci</i> 118, 5393-403. Woodings, J.A. et al. (2003) <i>Biochem J</i> 371, 463-71. Gonzalez-Quevedo, R. et al. (2005) <i>J Cell Biol</i> 168, 453-63. Callahan, C.A. et al. (2004) <i>Genes Dev</i> 18, 2724-9. 						
Species Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Ke	еу	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	у Кеу	H: Human R: Rat						
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