

## MTSS1 (N747) Antibody



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

Applications:	Reactivity: H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 95-105	Source/Isotype: Rabbit	<b>UniProt ID:</b> #043312	Entrez-Gene Id: 9788
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		MTSS1 (N747) Antibody detects endogenous levels of total MTSS1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids surrounding Asn747 of human MTSS1. Antibodies are purified by peptide affinity chromatography.				
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 $\delta$ (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 References		<ol> <li>Lee, Y.G. et al. Neoplasia 4, 291-4.</li> <li>Machesky, L.M. and Johnston, S.A. (2007) J Mol Med 85, 569-76.</li> <li>Mattila, P.K. et al. (2003) J Biol Chem 278, 8452-9.</li> <li>Yamagishi, A. et al. (2004) J Biol Chem 279, 14929-36.</li> <li>Bompard, G. et al. (2005) J Cell Sci 118, 5393-403.</li> <li>Woodings, J.A. et al. (2003) Biochem J 371, 463-71.</li> <li>Gonzalez-Quevedo, R. et al. (2005) J Cell Biol 168, 453-63.</li> <li>Callahan, C.A. et al. (2004) Genes Dev 18, 2724-9.</li> </ol>				

**Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer** 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 Key** W: Western Blotting

**Cross-Reactivity Key** H: Human M: Mouse R: Rat Mk: Monkey

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