

MTSS1 Polyclonal Antibody

Catalog NumberPA5-17047

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Non-human primate, Rat
Host/Isotope	Rabbit / IgG	Published species	Mouse, Not Applicable
Class	Polyclonal		
Type	Antibody	Tested Applications	Dilution *
Immunogen	Synthetic peptide corresponding to amino acids surrounding Pro549 of human MTSS1	Immunoprecipitation (IP)	1:50
		Western Blot (WB)	1:1,000
Published Applications			
Conjugate	Unconjugated	Western Blot (WB)	See 1 publications below
Form	Liquid		
Storage Conditions	-20°C		

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

It is not recommended to aliquot this antibody.

Background/Target Information

Metastasis suppressor protein 1 (MTSS1) [MIM, "missing in metastasis"], was first discovered as missing transcripts from metastatic bladder and prostate cancer cells. MTSS1 is a 755 amino acid protein, having multidomain and scaffolding function. It has a proline-rich/SH3 binding region and a serine-rich region with EGF or PDGF/Src consensus sites. It contains anactin-binding Wiskott-Aldrich syndrome protein homology-2 motif (WH2) at the C-terminus while the N-terminal IMD domain (IRSp53-MIM domain) interact with membranes and bundle actin filament. The WH2 domain binds to actin monomers and plays an important role in actin cytoskeleton reorganization. Recently, MIM was found to interact with cortactin via SH3 domains. In addition, MTSS1 enhanced cortactin- and Arp2/3-dependent actin polymerization. It is thus involved in cell motility and morphogenesis and also interacts with sonic hedgehog/Gli signaling in epidermal cells. MTSS1 acts as an important regulator of cell growth and development and is known to express in many tissues, including spleen, thymus, prostate, testis, uterus, colon, and peripheral blood.

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PubMed References For MTSS1 Polyclonal Antibody

1 Western Blot References

Species / Dilution	Summary
Mouse / Not Cited	<p>PA517047 was used in western blot to study the mechanism of internalization of CXCR4 receptor dependent on MIM and small Rab GTPases.</p> <p>Journal of cell science (2017; 130: 1475)</p> <p>"Missing-in-metastasis protein downregulates CXCR4 by promoting ubiquitylation and interaction with small Rab GTPases."</p> <p>Author(s):Li L,Baxter SS,Gu N, Ji M,Zhan X</p> <p>PubMed Article URL:http://dx.doi.org/10.1242/jcs.198937</p>

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