MTSS1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MTSS1, Polyclonal Antibody
Full Product Name	MTSS1 Antibody
Product Gene Name	anti-MTSS1 antibody
Product Synonym Names	2310003N14Rik; BC024131; D130001D01Rik; DKFZp781P2223; FLJ44694; KIAA0429; metastasis suppressor 1; Metastasis suppressor protein 1; Metastasis suppressor YGL 1; Metastasis suppressor YGL-1; MGC37896; MIM; MIMA; MIMB; missing in metastasis; Missing in metastasis protein; mKIAA0429; MTSS 1; Mtss1; MTSS1_HUMAN
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Concentration	1mg/ml (lot specific)
Specificity	MTSS1 Antibody detects endogenous levels of total MTSS1.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.
Antibody/Peptide Pairs	MTSS1 peptide (MBS9631748) is used for blocking the activity of MTSS1 antibody (MBS9629365)
Molecular Weight	82,680 Da
OMIM	608486
3D Structure	ModBase 3D Structure for O43312
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Immunogen	A synthesized peptide derived from Human MYOCD.
Conjugation	Unconjugated
Similarity	The WH2 motif at the C-terminus binds to actin monomers. Belongs to the MTSS family.
Subunit Structure	Binds to actin. Binds to the cytoplasmic domain of receptor protein tyrosine phosphatase delta.
Tissue Specificity	Expressed in many tissues, including spleen, thymus, prostate, testis, uterus, colon, and peripheral blood.
Function	May be related to cancer progression or tumor metastasis in a variety of organ sites, most likely through an interaction with the actin cytoskeleton.
Product Categories/Family for anti-MTSS1 antibody	Cytoplasm; Cytoskeleton; Primary
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MTSS1 antibody	ELISA (EIA)(peptide)

Application Notes for anti-MTSS1 antibody	ELISA(peptide): 1:20000-1:40000
Related Product Information for anti-MTSS1 antibody	MBS9629365 is an antibody targeting MTSS1. Also known as MTSS1 Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-MTSS1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MTSS1. It may not necessarily be applicable to this product.

NCBI GI #	144226234
NCBI GeneID	9788
NCBI Accession #	NP_055566.3
UniProt Primary Accession #	O43312
UniProt Secondary Accession #	Q8TCA2; Q96RX2; J3KNK6
UniProt Related Accession #	O43312
GenBank Nucleotide #	NM_014751.5
NCBI Official Full Name	metastasis suppressor protein 1 isoform 2
NCBI Official Synonym Full Names	metastasis suppressor 1
NCBI Official Symbol	MTSS1
NCBI Official Synonym Symbols	MIM; MIMA; MIMB
UniProt Protein Name	Metastasis suppressor protein 1
UniProt Synonym Protein Names	Metastasis suppressor YGL-1; Missing in metastasis protein
Protein Family	Metastasis suppressor protein
UniProt Gene Name	MTSS1
UniProt Synonym Gene Names	KIAA0429; MIM
UniProt Entry Name	MTSS1_HUMAN
NCBI Protein Information	metastasis suppressor protein 1; metastasis suppressor YGL-1; missing in metastasis protein

UniProt Comments for MTSS1	MTSS1: an intracellular protein that binds to actin and cortactin, and possesses tumor suppressor activity. Binds to the cytoplasmic domain of receptor protein tyrosine phosphatase delta. Senses and induces curved membranous curvatures important for cellular polarization, mobilization and endocytosis. May be related to cancer progression or tumor metastasis in a variety of organ sites. Its expression is down-regulated by MiR-135a. Downregulated in prostate cancer. Expressed in many tissues, including spleen, thymus, prostate, testis, uterus, colon, and peripheral blood. Belongs to the MTSS1 family. Three isoforms of the human protein are produced by alternative splicing. Protein type: Tumor suppressor; Adaptor/scaffold; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 8p22 Cellular Component: ruffle; adherens junction; endocytic vesicle; cytoplasm; actin cytoskeleton Molecular Function: actin monomer binding; actin filament binding; identical protein binding; protein binding; receptor binding Biological Process: plasma membrane organization and biogenesis; in utero embryonic development; actin filament polymerization; microspike biogenesis; positive regulation of actin filament bundle formation; cell motility; cell adhesion; actin cytoskeleton organization and biogenesis; bone mineralization; transmembrane receptor protein tyrosine kinase signaling pathway; negative regulation of epithelial cell proliferation
Research Articles on MTSS1	**1.** Study provides a novel molecular mechanism for the negative regulation of MTSS1 by beta-TRCP in cancer cells.
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