

ARG66666 anti-MST1R / RON phospho (Ser1394) antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MST1R / RON phospho (Ser1394)
Tested Reactivity	Hu, Ms
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MST1R / RON
Species	Human
Immunogen	Phosphospecific peptide around Ser1394 of Human MST1R / RON.
Conjugation	Un-conjugated
Alternate Names	CD136; CDw136; EC 2.7.10.1; RON; PTK8; Protein-tyrosine kinase 8; CD antigen CD136; p185-Ron; Macrophage-stimulating protein receptor; MSP receptor

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 150 kDa	

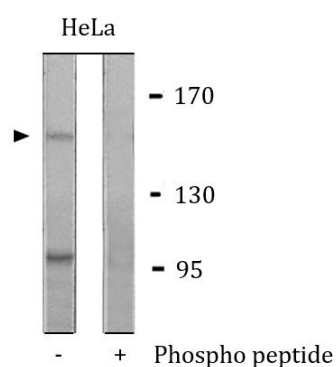
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	MST1R
Gene Full Name	macrophage stimulating 1 receptor
Background	This gene encodes a cell surface receptor for macrophage-stimulating protein (MSP) with tyrosine kinase activity. The mature form of this protein is a heterodimer of disulfide-linked alpha and beta subunits, generated by proteolytic cleavage of a single-chain precursor. The beta subunit undergoes tyrosine phosphorylation upon stimulation by MSP. This protein is expressed on the ciliated epithelia of the mucociliary transport apparatus of the lung, and together with MSP, thought to be involved in host defense. Alternatively spliced transcript variants encoding different isoforms with different structural and biochemical properties have been described (PMID:8816464). [provided by RefSeq, Oct 2011]
Function	Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to MST1 ligand. Regulates many physiological processes including cell survival, migration and differentiation. Ligand binding at the cell surface induces autophosphorylation of RON on its intracellular domain that provides docking sites for downstream signaling molecules. Following activation by ligand, interacts with the PI3-kinase subunit PIK3R1, PLCG1 or the adapter GAB1. Recruitment of these downstream effectors by RON leads to the activation of several signaling cascades including the RAS-ERK, PI3 kinase-AKT, or PLCgamma-PKC. RON signaling activates the wound healing response by promoting epithelial cell migration, proliferation as well as survival at the wound site. Plays also a role in the innate immune response by regulating the migration and phagocytic activity of macrophages. Alternatively, RON can also promote signals such as cell migration and proliferation in response to growth factors other than MST1 ligand. [UniProt]
Calculated Mw	152 kDa
PTM	Proteolytic processing yields the two subunits. Autophosphorylated in response to ligand binding on Tyr-1238 and Tyr-1239 in the kinase domain leading to further phosphorylation of Tyr-1353 and Tyr-1360 in the C-terminal multifunctional docking site. Ubiquitinated. Ubiquitination by CBL regulates the receptor stability and activity through proteasomal degradation. [UniProt]
Cellular Localization	Membrane; Single-pass type I membrane protein. [UniProt]

Images



ARG66666 anti-MST1R / RON phospho (Ser1394) antibody WB image

Western blot: HeLa cells treated with TNF alpha (20 ng/ml for 2 min), Cell lysates stained with ARG66666 anti-MST1R / RON phospho (Ser1394) antibody. The lane on the right is blocked with the phospho peptide.



ARG66666 anti-MST1R / RON phospho (Ser1394) antibody WB image

Western blot: 3T3 cell lysate stained with ARG66666 anti-MST1R / RON phospho (Ser1394) antibody at 1:500 dilution.