

Recombinant Anti-CD136 Rabbit mAb

Catalog # AP94978

Product Information

Application	WB, IHC, FC, IP, IF/IC
Primary Accession	Q04912
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	152241

Additional Information

Gene ID	4486
Other Names	PTK8; RON; Macrophage-stimulating protein receptor; MSP receptor; CDw136; Protein-tyrosine kinase 8; p185-Ron; CD136
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human CD136 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IP~~N/A IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	MST1R
Synonyms	PTK8, RON
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. Also plays 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.

Cellular Location

Membrane; Single-pass type I membrane protein.

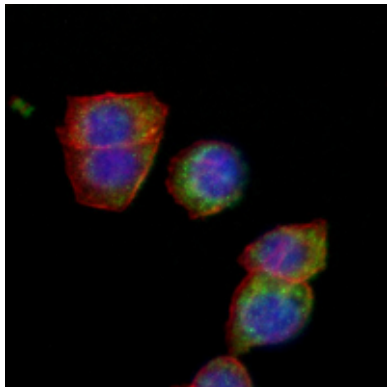
Tissue Location

Expressed in colon, skin, lung and bone marrow.

Images



Western blot analysis of CD136 expression in SKBR3 (A) whole cell lysates. (Predicted band size: 152 kD; Observed band size: 35, 185 kD)



Immunofluorescent analysis of CD136 staining in SKBR3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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