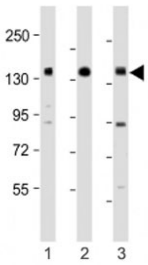
RON Antibody / MST1R (Center Region) (F54112)

Catalog No.	Formulation	Size
F54112-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54112-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q04912
Applications	Western Blot : 1:1000-1:2000
Limitations	This RON antibody is available for research use only.



Western blot testing of RON antibody at 1:1000: Lane 1) human HACAT, 2) HCT116 and 3) SK-BR-3 cell lysate. Predicted molecular weight ~152 kDa (beta) and ~185 kDa (alpha/beta heterodimer).

Description

Recepteur d'origine nantais (RON) or Macrophage-stimulating protein receptor (MST1R) is a 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]

Application Notes

The stated application concentrations are suggested starting points. Titration of the RON antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 600-633 from human MST1R/RON was used as the immunogen for the RON antibody.

Storage

Aliquot the RON antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.