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Rabbit Anti-phospho-Ron (Tyr1238+Tyr1239) antibody

SL10118R

Product Name:	phospho-Ron (Tyr1238+Tyr1239)
Chinese Name:	磷酸化原癌基因c-Met相关酪氨酸激酶抗体
Alias:	MST1R(phospho S1238+S1239); Ron (phospho Tyr1238 + Tyr1239); Ron (phospho Y1238 + Y1239); c met related tyrosine kinase; CD136; CD136 antigen; CDw136; Macrophage stimulating 1 receptor (c met related tyrosine kinase); Macrophage stimulating 1 receptor; Macrophage stimulating protein receptor alpha chain; MACROPHAGE STIMULATING PROTEIN RECEPTOR; Macrophage stimulating protein receptor beta chain; Macrophage-Stimulating 1 Receptor (MST1R); Macrophage-stimulating protein receptor beta chain; MSP receptor; Mst1r; MST1R variant RON30; MST1R variant RON62; p185 RON; p185-Ron; Protein-tyrosine kinase 8; PTK 8; ptk8; PTK8 protein tyrosine kinase 8; Recepteur d'origine nantais (RON); RON; RON protein tyrosine kinase; RON variant E2E3; RON_HUMAN; Soluble RON variant 1; Soluble RON variant 2; Soluble RON variant 3; Soluble RON variant 4; Stem cell derived tyrosine kinase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/TestICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	30/119/150kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human MST1R around the phosphorylation site of Tyr1238+Tyr1239:E(p-Y)(p-Y)SV

Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	MST1R/Ron, a HGF Receptor/MET-type protein kinase, mediates the biological activities of macrophage-stimulating protein (MSP), a multifunctional cytokine that regulates cell adhesion, motility, growth, and survival. The protein is a membrane-spanning, disulfide-linked heterodimer, which results from cleavage of a glycosylated precursor into 35-kD (alpha) and 150-kD (beta) subunits. Ligand binding results in tyrosine phosphorylation of the beta chain. In knockout studies, MST1R/RON (-/-) mice failed to survive past the periimplantation period. The MST1R/RON gene has been mapped to 3p21, a region of frequent deletion or mutation in small cell lung and renal carcinoma, and has been implicated in the progression of several epithelial cancers. Ron expression has been documented in many normal human tissues. ESTs have been isolated from several tissue libraries, including normal colon, mouth, prostate, and testis and cancerous colon, prostate, stomach, and uterus. **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. **Subunit:** Heterodimer of an alpha chain and a beta chain which are disulfide linked. Binds PLXNB1. Associates with and is negatively regulated by HYAL2. Interacts when phosphorylated with downstream effectors including PIK3R1, PCLG1, GRB2 and GAB1. Interacts with integrin beta1/ITGB1 in a ligand-independent fashion. **Subcellular Location:** Membrane; Single-pass type I membrane protein. **Tissue Specificity:**

Expressed in colon, skin, lung and bone marrow.

Post-translational modifications:
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.

Similarity:
Belongs to the protein kinase superfamily. Tyr protein kinase family.
Contains 3 IPT/TIG domains.
Contains 1 protein kinase domain.
Contains 1 Sema domain.

SWISS:
Q04912

Gene ID:
4486

Database links:

Entrez Gene: 4486 Human

Entrez Gene: 19882 Mouse

Entrez Gene: 300999 Rat

Omim: 600168 Human

SwissProt: Q04912 Human

SwissProt: Q62190 Mouse

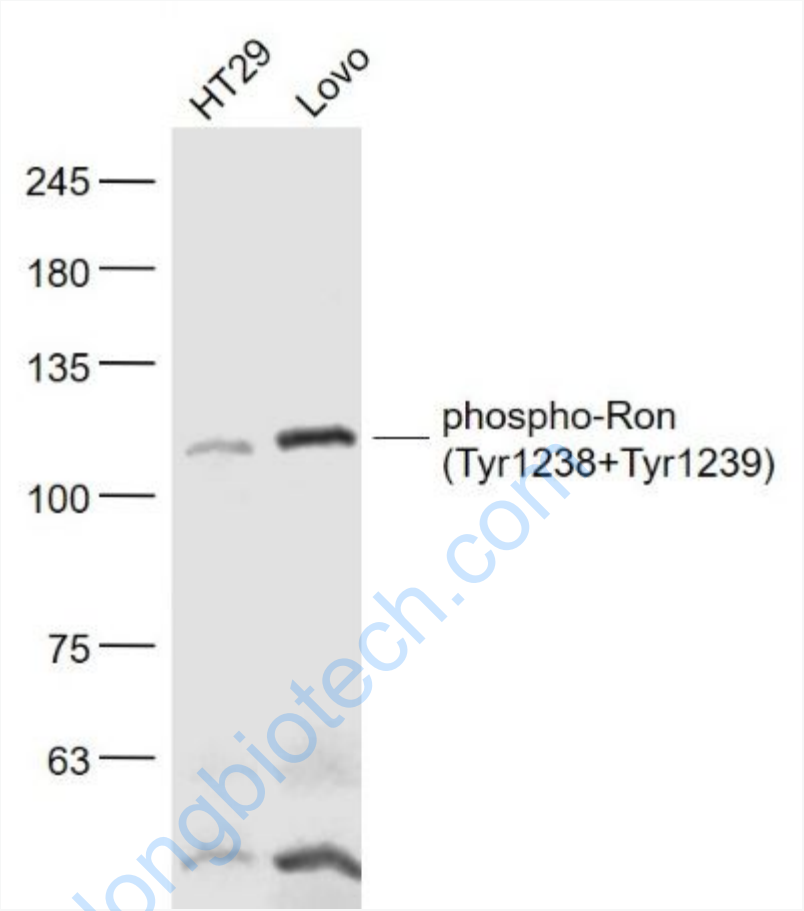
Unigene: 517973 Human

Unigene: 3901 Mouse

Unigene: 218659 Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

HT29(Human) Cell Lysate at 30 ug

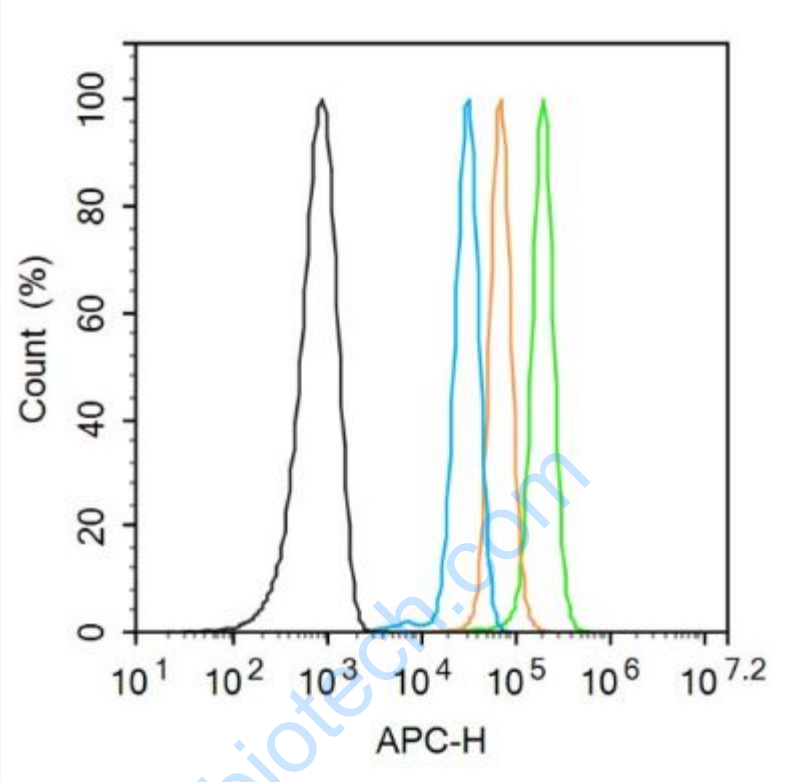
Lovo(Human) Cell Lysate at 30 ug

Primary: Anti- phospho-Ron (Tyr1238+Tyr1239) (SL10118R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 30/119/150 kD

Observed band size: 119 kD



Blank control (Black line): A431 (Black).

Primary Antibody (green line): Rabbit Anti-phospho-Ron (Tyr1238+Tyr1239) antibody (SL10118R)

Dilution: 1μg /10^6 cells;

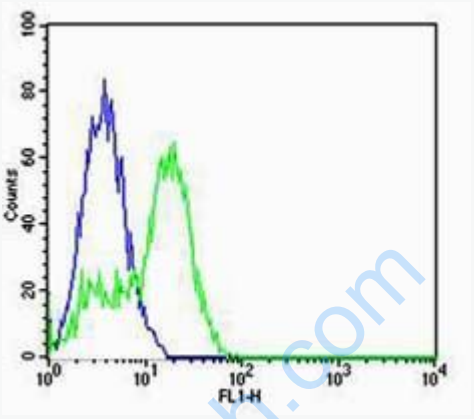
Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647

Dilution: 3μg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for

	30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.  Cell: H-4-II-E Concentration:1:100 Host/Isotype:Rabbit/IgG Flow cytometric analysis of Rabbit IgG isotype control (Cat#: bs-10118R) on H-4-II-E(green) compared with control in the absence of primary antibody (blue) followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG(H+L) secondary antibody .