

Rabbit anti-Human, Mouse RON Polyclonal Antibody | anti-RON antibody

RON Antibody

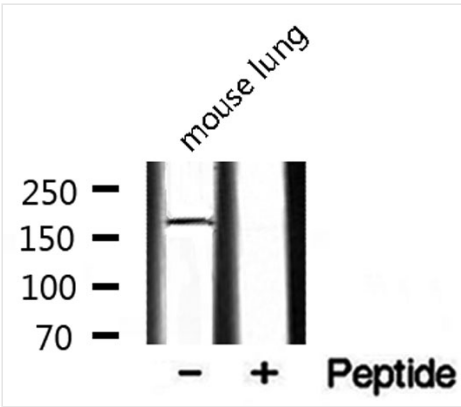
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320764	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

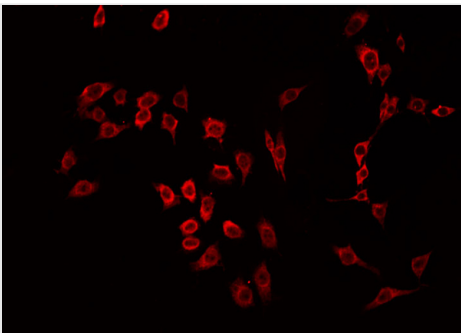
RON; Polyclonal Antibody; RON Antibody; c met related tyrosine kinase; CD136; CD136 antigen; CDw136; Macrophage stimulating 1 receptor (c met related tyrosine kinase); Macrophage stimulating 1 receptor; Macrophage stimulating protein receptor alpha chain; MACROPHAGE STIMULATING PROTEIN RECEPTOR; Macrophage 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; NPCA3; p185 RON; p185-Ron; Protein-tyrosine kinase 8; PTK 8; ptk8; PTK8 protein tyrosine kinase 8; Recepteur d'origine nantais (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; anti-RON antibody

PRODUCT SPECIFICATIONS

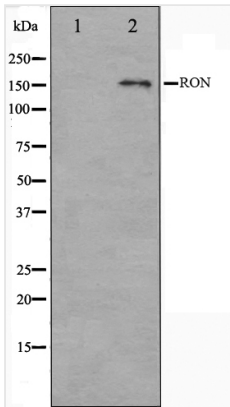
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	RON antibody detects endogenous levels of total RON
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1351
Applicable Applications for anti-RON antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RON
Subcellular Location	Membrane.
Tissue Specificity	Expressed in colon, skin, lung and bone marrow.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis on mouse lung lysate using RON Antibody. The lane on the right is treated with the antigen-specific peptide.



IF (Immunofluorescence)
AAA320764 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis on HeLa cell lysate using RON Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RON antibody

Description: Ron a receptor tyrosine kinase of the Met family. Receptor for macrophage stimulating protein. Can be desensitized by c-Cbl and its binding partner Grb2. Overexpression of wild-type RON causes the formation of lung tumors. Two alternatively spliced isoforms have been described.

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 Structure: 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.

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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	349732251
NCBI GeneID	4486
NCBI Accession #	NP_001231866.1
NCBI GenBank Nucleotide #	NM_001244937.2
UniProt Accession #	Q04912; A0A087WZG2; B5A944; B5A945; B5A946; B5A947
Molecular Weight	Observed: 152 kDa Predicted: 153 kDa
NCBI Official Full Name	macrophage-stimulating protein receptor isoform 2
NCBI Official Synonym Full Names	macrophage stimulating 1 receptor
NCBI Official Symbol	MST1R
NCBI Official Synonym Symbols	RON; PTK8; CD136; NPCA3; CDw136
NCBI Protein Information	macrophage-stimulating protein receptor
UniProt Protein Name	Macrophage-stimulating protein receptor
UniProt Gene Name	MST1R
UniProt Synonym Gene Names	PTK8; RON; MSP receptor

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/ron-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/320764>