RON Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RON, Polyclonal Antibody
Full Product Name	RON, NT (p185-Ron, CDW136, CD136 antigen, MST1R, RON, Macrophage-stimulating protein receptor alpha chain, Macrophage-stimulating protein receptor beta chain, Macrophage-stimulating protein receptor MSPR, MSP receptor) (FITC)
Product Gene Name	anti-RON antibody
Product Synonym Gene Name	MST1R
Product Synonym Names	p185-Ron; CDW136; CD136 antigen; MST1R; RON; Macrophage-stimulating protein receptor alpha chain; Macrophage-stimulating protein receptor beta chain; Macrophage-stimulating protein receptor MSPR; MSP receptor
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	152,271 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (49924435..49941306, complement). Location: 3p21.3
OMIM	600168
3D Structure	ModBase 3D Structure for Q04912
Immunogen	RON antibody is generated from rabbits immunized with two KLH conjugated synthetic peptides selected from N-term of human RON.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-RON antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-RON antibody	FLISA
Application Notes for anti-RON antibody	FLISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-RON antibody	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The tyrosine kinase (TK) group is mainly involved in the regulation of cell-cell interactions such as differentiation, adhesion, motility and death. There are currently about 90 TK genes sequenced, 58 are of receptor protein TK (e.g. EGFR, EPH, FGFR, PDGFR, TRK, and VEGFR families), and 32 of cytosolic TK (e.g. ABL, FAK, JAK, and SRC families).
Product References and Citations for anti-RON antibody	Maggiora, P., et al., Exp. Cell Res. 288(2):382-389 (2003). Santoro, M.M., et al., Dev. Cell 5(2):257-271 (2003). Penengo, L., et al., Oncogene 22(24):3669-3679 (2003). Zhou, Y.Q., et al., Oncogene 22(2):186-197 (2003). Danilkovitch-Miagkova, A., et al., Proc. Natl. Acad. Sci. U.S.A. 100(8):4580-4585 (2003).
Other Notes	Small volumes of anti-RON antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RON purchase	MBS6343075 is an antibody targeting RON. Also known as RON, NT (p185-Ron, CDW136, CD136 antigen, MST1R, RON, Macrophage-stimulating protein receptor alpha chain, Macrophage-stimulating protein receptor beta chain, Macrophage-stimulating protein receptor MSPR, MSP receptor) (FITC). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RON. It may not necessarily be applicable to this product.

NCBI GI #	349732251
NCBI GeneID	4486
NCBI Accession #	NP_001231866.1
UniProt Primary Accession #	Q04912
UniProt Secondary Accession #	B5A944; B5A945; B5A946; B5A947
UniProt Related Accession #	Q04912
GenBank Nucleotide #	NM_001244937.1
NCBI Official Full Name	macrophage-stimulating protein receptor isoform 2
NCBI Official Synonym Full Names	macrophage stimulating 1 receptor (c-met-related tyrosine kinase)
NCBI Official Symbol	MST1R
NCBI Official Synonym Symbols	RON; PTK8; CD136; CDw136
UniProt Protein Name	Macrophage-stimulating protein receptor
UniProt Synonym Protein Names	CDw136; Protein-tyrosine kinase 8; p185-Ron
Protein Family	Rondonin
UniProt Gene Name	MST1R
UniProt Synonym Gene Names	PTK8; RON; MSP receptor
UniProt Entry Name	RON_HUMAN
NCBI Protein Information	macrophage-stimulating protein receptor; p185-Ron; MSP receptor; RON variant 21; RON variant E2E3; MST1R variant RON30; MST1R variant RON62; soluble RON variant 1; soluble RON variant 2; soluble RON variant 3; soluble RON variant 4; c-met-related tyrosine

NCBI Summary for RON	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]
UniProt Comments for RON	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. Protein type: Protein kinase, TK; EC 2.7.10.1; Membrane protein, integral; Kinase, protein; Protein kinase, tyrosine (receptor); TK group; Met family Chromosomal Location of Human Ortholog: 3p21.3 Cellular Component: cell surface; integral to plasma membrane; stress fiber Molecular Function: macrophage colony stimulating factor receptor activity; protein binding; enzyme binding; ATP binding Biological Process: positive regulation of MAP kinase activity; positive regulation of protein kinase B signaling cascade; peptidyl-tyrosine phosphorylation; multicellular organismal development; response to virus; single fertilization; positive regulation of cell proliferation; innate immune response; defense response; signal transduction; cell motility; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on RON	**1.** results suggest cytoplasmic phosphorylated RON is a potential marker for poor prognosis in Esophageal squamous cell carcinomapatients.
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