

Ron β (H-160): sc-25781

BACKGROUND

Receptor protein tyrosine kinases (PTKs) have been classified into different subclasses on the basis of sequence similarity and distinct structural characteristics. The c-Met encoded receptor represents the initial member of one class of receptors characterized by a heterodimeric structure and a cysteine-rich extracellular domain. Ron, also designated macrophage-stimulating protein receptor (MSP receptor), p185-Ron, CD136 antigen or PTK8 represents a second member of this receptor class. The intracellular PTK domains of Ron and Met are highly similar (63% sequence identity) while the extracellular domains are less related (25% sequence identity) and both are rich in cysteine residues. Mature Ron receptor is comprised of a disulfide-linked heterodimer formed from an α chain (Ron α) and a β chain (Ron β). Proteolytic processing results in the separation of the N-terminal Ron α and C-terminal Ron β subunits.

REFERENCES

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- Pawson, T. and Bernstein, A. 1991. Receptor tyrosine kinases: genetic evidence for their role in *Drosophila* and mouse development. *Trends Gen.* 6: 350-356.
- Bottaro, D.P., Rubin, J.S., Faletto, D.L., Chan A.M., Kmiecik, T.E., Vande Woude, G.F. and Aaronson, S.A. 1991. Identification of the hepatocyte growth factor receptor as the c-Met proto-oncogene product. *Science* 251: 802-804.
- Rong, S., Bodescot, M., Blair, D., Dunn, J., Nakamura, T., Mizuno, K., Park, M., Chan, A., Aaronson, S. and Vande Woude, G.F. 1992. Tumorigenicity of the Met proto-oncogene and the gene for hepatocyte growth factor. *Mol. Cell. Biol.* 12: 5152-5158.

CHROMOSOMAL LOCATION

Genetic locus: MST1R (human) mapping to 3p21.31; Mst1r (mouse) mapping to 9 F1.

SOURCE

Ron β (H-160) is a rabbit polyclonal antibody raised against amino acids 531-690 of the Ron precursor of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

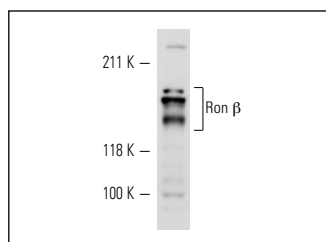
Ron β (H-160) is recommended for detection of Ron β of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Ron β siRNA (h): sc-36434, Ron β siRNA (m): sc-36435, Ron β shRNA Plasmid (h): sc-36434-SH, Ron β shRNA Plasmid (m): sc-36435-SH, Ron β shRNA (h) Lentiviral Particles: sc-36434-V and Ron β shRNA (m) Lentiviral Particles: sc-36435-V.

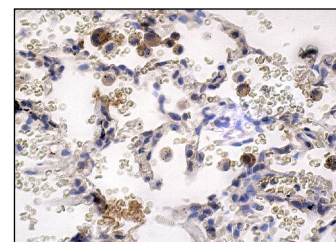
Molecular Weight of Ron β : 150 kDa.

Positive Controls: COLO 320DM cell lysate: sc-2226, SW480 cell lysate: sc-2219 or Hep G2 cell lysate: sc-2227.

DATA



Ron β (H-160): sc-25781. Western blot analysis of Ron β expression in SW480 whole cell lysate.



Ron β (H-160): sc-25781. Immunoperoxidase staining of formalin fixed, paraffin-embedded human lung tissue showing cytoplasmic staining of macrophages.

SELECT PRODUCT CITATIONS

- Eckerich, C., Schulte, A., Martens, T., Zapf, S., Westphal, M. and Lamszus, K. 2009. RON receptor tyrosine kinase in human gliomas: expression, function, and identification of a novel soluble splice variant. *J. Neurochem.* 109: 969-980.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **Ron β (E-3): sc-74588** or **Ron β (A-8): sc-74587**, our highly recommended monoclonal alternatives to Ron β (H-160).