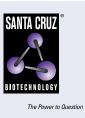
SANTA CRUZ BIOTECHNOLOGY, INC.

Ron β (A-8): sc-74587



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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- Giordano, S., et al. 1988. p145, a protein with associated tyrosine kinase activity in a human gastric carcinoma cell line. Mol. Cell. Biol. 8: 3510-3517.
- Pawson, T., et al. 1991. Receptor tyrosine kinases: genetic evidence for their role in *Drosophila* and mouse development. Trends Genet. 6: 350-356.
- 4. Bottaro, D.P., et al. 1991. Identification of the hepatocyte growth factor receptor as the c-Met proto-oncogene product. Science 251: 802-804.
- Rong, S., et al. 1992. Tumorigenicity of the Met proto-oncogene and the gene for hepatocyte growth factor. Mol. Cell. Biol. 12: 5152-5158.
- Ronsin, C., et al. 1993. A novel putative receptor protein tyrosine kinase of the Met family. Oncogene 8: 1195-1202.
- 7. Wang, M.H., et al. 1994. Identification of the Ron gene product as the receptor for the human macrophage stimulating protein. Science 266: 117-119.
- Gaudino, G., et al. 1994. Ron is a heterodimeric tyrosine kinase receptor activated by the HGF homologue MSP. EMBO J. 13: 3524-3532.
- 9. Wang, M.H., et al. 1997. Macrophage stimulating protein (MSP) binds to its receptor via the MSP β chain. J. Biol. Chem. 272: 16999-17004.

CHROMOSOMAL LOCATION

Genetic locus: MST1R (human) mapping to 3p21.31.

SOURCE

Ron β (A-8) is a mouse monoclonal antibody raised against amino acids 531-690 of the Ron precursor of human origin.

PRODUCT

Each vial contains 200 μg IgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Ron β (A-8) is recommended for detection of Ron β of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (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 siRNA (h): sc-36434, Ron shRNA Plasmid (h): sc-36434-SH and Ron shRNA (h) Lentiviral Particles: sc-36434-V.

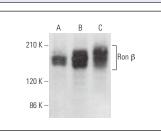
Molecular Weight of Ron β : 150 kDa.

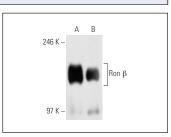
Positive Controls: SW480 cell lysate: sc-2219, T-47D cell lysate: sc-2293 or A-431 whole cell lysate: sc-2201.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA





Ron β (A-8): sc-74587. Western blot analysis of Ron β expression in SW480 (A), COLO 205 (B) and A-431 (C) whole cell lysates.

Ron β (A-8): sc-74587. Western blot analysis of Ron β expression in SW480 (A) and T-47D (B) whole cell lysates.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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



See **Ron** β **(E-3): sc-74588** for Ron β antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor[®] 488, 546, 594, 647, 680 and 790.