



Rabbit anti CD136 (RON) (Nonphosphspecific) Polyclonal Antibody

Alternative Name(s): Macrophage stimulating 1 receptor; CD136; RON

Order Information

- **Description:** CD136 (RON) (Nonphosphspecific)
- **Catalogue:** 601-930
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu

ANTIGEN PREPARATION

A synthetic peptide containing epitope -EPYYS- without any phosphorylation surrounding Y1238/9 of the human CD136.

BACKGROUND

CD136, a transmembrane receptor tyrosine kinase, also known as Macrophage stimulating 1 receptor (MST1R) and RON (Recepteur d'origine nantais), is a member of the MET proto-oncogene family (63% homology), and is the receptor for macrophage-stimulating protein (MSP), a multifunctional cytokine that regulates cell adhesion, motility, growth, and survival. Binding of MSP to CD136 stimulates tyrosine phosphorylation on Tyr 1238 and Tyr 1239. This phosphorylation leads to a up-regulation of CD136 catalytic activity and subsequent activation of downstream signaling molecules. In addition, CD136 contains putative autophosphorylation sites on Tyr 1353 and Tyr 1360. RON mediates multiple signaling cascades, such as MAPK, PI3K/AKT, FAK pathways. CD136 activation can also significantly increase C-Src activity. CD136 is a disulfide-linked 180kD heterodimer composed of a 35kD alpha chain and a 150kD beta chain, and is mainly expressed in cells of epithelial origin. CD136 is thought to play a role in early embryonic development and in the inflammatory response as well as implicated in the progression and metastasis of tumors including those of the breast and colon.

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification

FORMULATION

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes ~185 kDa of human CD136 protein. It also reacts with mouse and rat. The other species are not tested.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 185.0
- Positive Control: Kidney Tissue

FOR RESEARCH USE ONLY.

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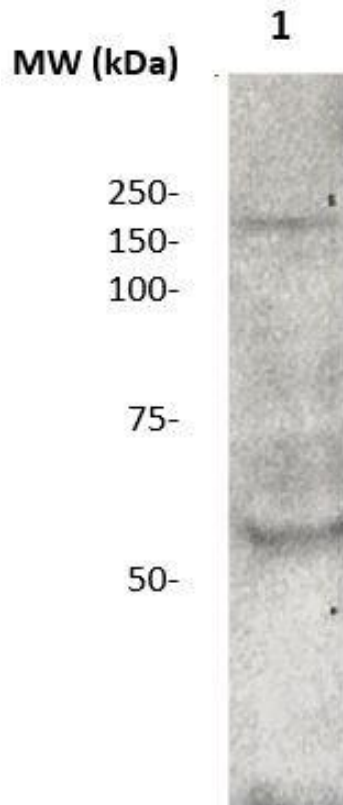
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

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DATA ATTACHMENTS



Western Blot: The cell lysate derived from HeLa (20 ug/lane) were immunoprobed by Rabbit anti-CD136(paired Y1238/Y1239) (Cat#601-930) at 1:500. An immunoreactive band is observed around ~185kDa.

REFERENCES

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