

AbboMax, Inc

Innovation at Work

Rabbit anti CD136 Non-Phosphospecific Antibody

Alternate Names:

Recepteur d'origine nantais (RON); Macrophage-Stimulating 1 Receptor (MST1R).

Order Information

Description: Rabbit anti-CD136
(Non-phosphospecific)
Catalogue#: 601-930
Lot#: See the label
Size: 100 ug/200 ul
Host: Rabbit
Clone: N/A
Application: ELISA, WB, IHC
Reactivity: Hu, Rt, Ms

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 Site-specific Epitope Affinity Purification.

SPECIFICITY

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

FORMULATION

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

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

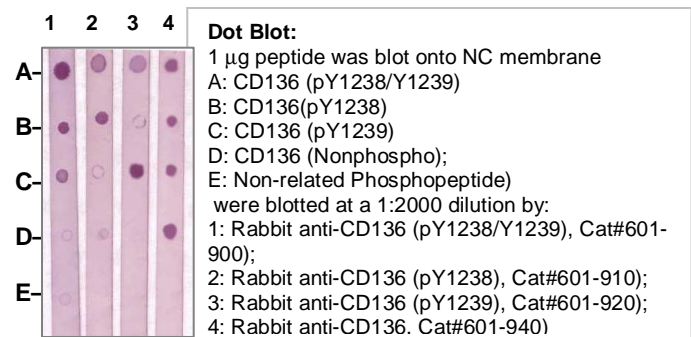
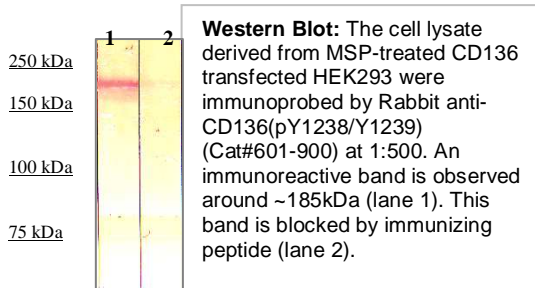
APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	2-5 µg/ml
Flow cytometry	Not tested

MOLECULAR WEIGHT:	185 kDa
POSITIVE CONTROL:	CD136 transfected HEK293
CELLULAR LOCATION:	N/A

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

DATA ATTACHMENTS



REFERENCES

FOR RESEARCH USE ONLY.