

**Rabbit Anti-CD136/RON/MST1R [MD351R]: RM0066**

**Intended Use:** For Research Use Only

**Description:** CD136, also known as MST1R (Macrophage stimulating 1 receptor) and RON (Recepteur d'origine nantais), is a member of the MET proto-oncogene family, and 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. CD136 regulates cell dissociation, motility, and invasion of extracellular matrices. It 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. It serves as a prognostic marker and therapeutic target for gastroesophageal cancer.

**Specifications**

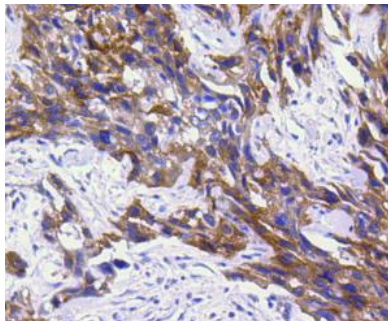
Clone: MD351R  
 Source: Rabbit  
 Isotype: IgG  
 Reactivity: Human  
 Immunogen: Recombinant protein of human CD136  
 Localization: Cytoplasm, membrane  
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC  
 Package:

Description	Catalog No.	Size
CD136/RON/MST1R [MD351R] Concentrated	RM0066	1 ml

**IHC Procedure\***

Positive Control Tissue: Liver, skin, rectum, lymph node  
 Concentrated Dilution: 10-100  
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human breast cancer stained with anti-CD136 using DAB

**References:**

1. The Clinical Significance of CD163+ Tumor-Associated Macrophages (TAMs) in Laryngeal Squamous Cell Carcinoma. Abderrahman Ouban, et al. Cureus. Mar 18;15(3):e36339, 2023.
2. Multiplex Immunofluorescence and the Digital Image Analysis Workflow for Evaluation of the Tumor Immune Environment in Translational Research. Frank Rojas, et al. Front Oncol. Jun 27;12:889886, 2022.
3. Immunohistochemical Analysis of Distribution of RON Receptor Tyrosine Kinase in Human Digestive Organs. Tetsuya Okino, et al. Digestive Diseases and Sciences. Volume 46, pages 424–429, 2001.