Anti-Human Met-167Er

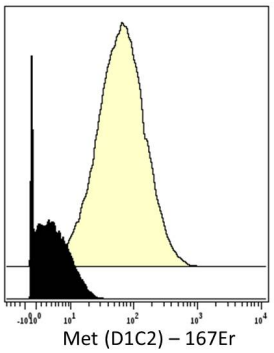
Catalog: 3167017A
Package Size: 50 tests
Storage: Store product at 4°C. Do not freeze.
Reactivity: Human

Clone: D1C2
Isotype: Rabbit IgG
Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10^6 live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human HepG2 cells (top) and human Jurkat cells (bottom) were fixed, permeabilized, and stained with 167Er-anti-Met (D1C2). Total viable cells are displayed in analysis.

Description

The c-Met receptor, also called hepatocyte growth factor receptor (HGFR) is a member of the receptor tyrosine kinase family. It consists of an extracellular ligand-binding domain and an intracellular kinase domain. The receptor is activated by ligand binding followed by dimerization and phosphorylation within the intracellular kinase domains. Structurally, the extracellular domain is composed of a semaphorin (SEMA) domain, a cystein rich hinge known as plexin, semaphorin and integrin (PSI) domain followed by four immunoglobulin-like domains. In humans, HGF is the only known activating ligand of c-Met that induces cellular responses such as cell proliferation, cell survival, cell motility and invasion. In healthy tissues, c-Met signaling is implicated in embryonic development, wound healing and liver regeneration. In human malignancies, c-Met can be deregulated by protein overexpression, gene amplification, somatic or germline mutations, or the production of HGF-dependent autocrine loops.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. Highly Multiparametric Analysis by Mass Cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010.

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