

Anti-CD366/Tim-3 (D5D5R)-154Sm

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog number: 3154024D

Package size and concentration: 25 µg, 0.5 mg/mL

Clone: D5D5R

Isotype: Rabbit IgG

Pathologist-verified on: Human FFPE

Fluidigm tested on: Human FFPE, Mouse FFPE

Reported reactivity: Human, Mouse

Formulation: Antibody stabilizer with 0.05% sodium azide

Storage: Store at 4 °C. Do not freeze.

Application: IMC paraffin

Technical Information

Description: T cell immunoglobulin and mucin domain-containing molecule 3 (Tim-3) is a type I transmembrane receptor that is constitutively expressed at high levels on NK cells. It is also expressed on specific subsets of CD4+ and CD8+ T cells, on subpopulations of macrophages and DCs and on monocytes, albeit to a lesser extent than on NK cells. Tim-3 was originally identified as a marker of terminally differentiated CD4+ Th1 cells and subsequently associated with T cell exhaustion and impaired virus-specific T cell responses in HIV-1, hepatitis C virus (HCV), and hepatitis B virus (HBV) infection. Three ligands have been described for Tim-3: galectin-9 (Gal-9), cell surface phosphatidylserine, and the high-mobility group box 1 (HMGB1) protein. Gal-9 is highly expressed in immune tissues, and engagement of Tim-3 by Gal-9 triggers apoptosis in CD4+ Th1 cells, T cells, and thymocytes. Tim-3 signaling on immune cells can trigger either inhibitory or activating signals.

Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry™ (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

Quality control: Each lot of conjugated antibody is quality control- tested by Imaging Mass Cytometry on tissue sections

Recommended concentration: For optimal performance it is recommended that the antibody be titrated for the desired application. Suggested initial dilution range: IMC-Paraffin: 1:50 to 1:200

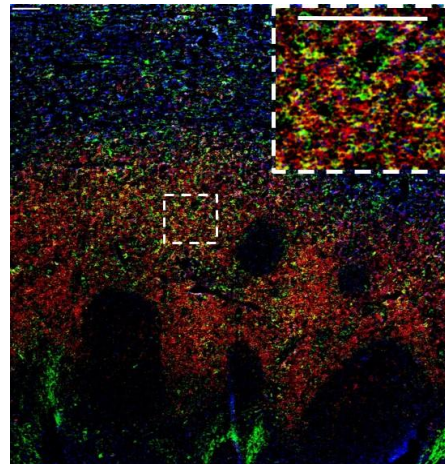
References

Chang, Q. et al. "Staining of frozen and formalin-fixed, paraffin-embedded tissues with metal-labeled antibodies for Imaging Mass Cytometry analysis." *Current Protocols in Cytometry* 82 (2017): 12.47.1–12.47.8.

Giesen, C. et al. "Highly multiplexed imaging of tumor tissues with subcellular resolution by mass cytometry." *Nature Methods* 11 (2014): 417–22.

Safety

Use standard laboratory safety protocols. Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, go to fluidigm.com/sds and search for the SDS using either the product name or the part number.



Human tonsil (FFPE) stained with 154Sm-anti-CD366/Tim-3 (D5D5R™) at a dilution of 1:100 (green pseudocolor), 156Gd-anti-CD4 (ERP6855) (red pseudocolor), and iridium DNA intercalator (blue pseudocolor). Heat-mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Scale bar size = 100 µm.

For technical support visit techsupport.fluidigm.com. | For general support visit fluidigm.com/support.

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